

## SEQUENCE LISTING

<110> Craig Rosen,  
Steve Ruben

<120> Human Lung Cancer Associated Gene Sequences and Polypeptides

<130> PA104

<140> Not available

<141> 2000-03-07

<150> 60/124,270

<151> 1999-03-12

<160> 896

<170> PatentIn Ver. 2.0

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<211> 1580

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1566)

<223> n equals a,t,g, or c

<220>

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<222> (1576)

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&lt;211&gt; 2442

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2

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<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (205)

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<222> (1759)

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<222> (1772)

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<213> Homo sapiens

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<210> 5

<211> 1277

<212> DNA

<213> Homo sapiens

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<211> 2202

<212> DNA

<213> Homo sapiens

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<211> 1298

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<213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

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<211> 2155  
<212> DNA  
<213> Homo sapiens

<400> 9  
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gaattggtgt tgctgtgagt tgtattcggg ctactggcag ctacattgct gggactaatg 360  
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<210> 10

<211> 1208

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1159)

<223> n equals a,t,g, or c

<400> 10

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caaggtggag tcccgttttg atgagcacca gagtaagcct gagatcctga atcttgtgaa 240
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<210> 11

<211> 2312

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2305)

<223> n equals a,t,g, or c

<400> 11

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<210> 12
<211> 915
<212> DNA
<213> Homo sapiens

```

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<400> 12
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atcatgaaga agtc 915

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<210> 13
<211> 1452
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (974)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (1432)
<223> n equals a,t,g, or c

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<220>

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11

<221> misc feature  
<222> (1437)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1439)  
<223> n equals a,t,g, or c

<400> 13  
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<210> 14  
<211> 441  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (348)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (402)  
<223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (437)  
 <223> n equals a,t,g, or c

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<210> 15  
 <211> 524  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (353)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (440)  
 <223> n equals a,t,g, or c

<400> 15  
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 cctctctggc cctcatcctn ctgagctgca aaggaaaagc caagtgaagc gggctctggg 480  
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<210> 16  
 <211> 2432  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (236)  
 <223> n equals a,t,g, or c



&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (245)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (763)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 16

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2432

<210> 17

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<400> 17

gaacaactga caggctcaag agcaaaaagc gtgggcagtt ggagaagaag cagccagagt 60  
gtgaagaagc ccacggaagg aaagtccagg gaggaggaaa agaagcagaa gttttggcat 120  
ctgttccctg gctgtgccaa gatgggcgat tggagcttcc tgggaaattt cctggaggaa 180  
gtacacaagc actcgaccgt gtaggcaag gtctggctca ctgtcctctt catattccgt 240  
atgctcgtgc tgggcacagc tgctgagtct tcctgggggg atgagcaggc tgatttccgg 300  
tgtgatacga ttcagcctgg ctgccagaat gtctgstasg accaggcttt tcccatnttc 360  
ccacatnctg ta 372

<210> 18

<211> 929

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (918)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (929)

<223> n equals a,t,g, or c

&lt;400&gt; 18

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attccctggt cattctcatt tactgtctaa agttgaggag atgggatgtc ccagatgata 60
gggctcctgg gatttcagac ccaagaccag caggactcca gtcacctcta cccagctct 120
ccaggacaca gcgctcccaa ctctgagtga cgteccacct ctggctcctg cagcacaacc 180
aacgtgggaa tcacaccctc cagacctccc acagctccac cccagactgg gcgccggccc 240
tgcctccatt tcagctgtga caacctcaga gccgtgttg cccaagcatg acaaggacgt 300
atgaaaactt ccagtacttg gagaataagg tgaaagtcca ggggtttaa aatgggscac 360
ttcctctcca gtccctcctg cagcgtctcy gctctgggsc ctgccatctc ctgctgtccc 420
tggggctcgg nctcctgctg ctggcatca tctgtgtgtg tggattccaa aattccaaat 480
ttcagaggga cctggtgacc ctgagaacag attttagcaa cttcacctca aacctgtgg 540
cggagatcca ggcagtactt cccagggcag cagcttgga gaaacgatag catctctgaa 600
agctgaggtg ganggtttca agcaggaacg gcaggcagtt cattctgaaa tgctcctgcg 660
agtccagcag ctgggtgcaag acctgaagaa actgacctgc caggtggcta ctctcaacaa 720
caatggcctc cactgaaggg acctgctgcc cygtcaactg ggtggagcac caagacagct 780
gctactggtt ctctcaytct gggatgtcct gggccgaagc tgagaagtac tgccarctga 840
agaacgcccc cctggtggtc atcaaateca gggaggagca agtgagggct tcttggtact 900
cagttcctaa gacatgtnc c atttagggn 929

```

&lt;210&gt; 19

&lt;211&gt; 416

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (196)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (369)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (383)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 19

```

ctggggccta acaaaaagaa acctgccatg ctgctcttcc tcctctctgc actggtcctg 60
ctcacacagc ccctgggcta cctggaagca gaaatgaaga cctactccca cagaacaatg 120
cccagtgtt gcacctggt catgtgtagc tcagtggaga gtggcctgcc tggctcgcat 180
ggacgggatg ggaganaggg ccctcggggc gagaaggggg acccaggttt gccaggagct 240
gcagggcaag cagggatgcc tggacaagct ggcccagttg ggcccaaagg ggacaatggc 300
tctgttgag aacctggacc aaagggagac acttgggcca agttggacct tcaggaaact 360
ccggtgttnc tggccaact tgnagagaag gtcccttggg gaagcaaggg gacata 416

```

&lt;210&gt; 20

&lt;211&gt; 1853

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<400> 20

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aaattcccg gtcgacccac gcgtccgcta cactgnaacc ctgatggcta cgaggtggca 60
gcgcagatgg gctcagagtt tgggaactgg ggcgctggga ctgtggactg aggagggtt 120
tgacatcttt gaagatttcc cggatctcaa ctctgtgctc tggggagctg aggagaggaa 180
atgggtcccc taccgggtcc ccaacaataa cttgcccatc cctgaacgct acctttcgcc 240
agatgccacg gtatccacgg aggtccgggc catcattgcc tggatggaga agaaccctt 300
cgtgctggga gcaaatctga acggcggcga gcggctagta tcctaccctc acgatatggc 360
ccgcacgcct acccaggagc agctgctggc cgcaccatgg cagcagcccg gggggaggat 420
gaggacgagg tctccgaggc ccaggagact ccagaccacg ccattcttcc gtggcttgcc 480
atctccttcg cctccgcaca cctcaccttg accgagccct accgcggagg ctgccaagcc 540
aggactacac cggcgcatg ggcacgtca acggggccaa gtggaacccc cggaccggga 600
ctatcaatga cttcagttac ctgcatacca actgcctgga gctctccttc tacctgggt 660
gtgacaagtt ccctcatgag agtgagctgc cccgcgagtg ggagaacaac aaggaggcgc 720
tgctcacctt catggagcag gtgcaccgcg gcattaaggg ggtggtgacg gacgagcaag 780
gcatcccat tgccaacgcc accatctctg tgagtggcat taatcacggc gtgaagacag 840
ccagtgggtg tgattactgg cgaatcttga acccggttga gtaccgcgtg acagcccacg 900
cgagggggta caccgcgagc gccaaagacct gcaatgttga ctatgacatc ggggccaactc 960
agtgcaytt catcctgggt cgctccaact ggaagcgcac ccgggagatc atggccatga 1020
acgggaaccg scctatccca cacatagacc catcgcgccc tatgaccccc caacagcgac 1080
gcctgcagca gcgacgccta caacaccgcc tgcgcttcgg gcacagatgc ggctgcggcg 1140
cctcaacgcc accaccaccc taggccccca cactgtgcct cccacgctgc cccctgcccc 1200
tgccaccacc ctgagcacta ccatagagcc ctggggcctc ataccgcaa ccaccgctgg 1260
ctgggaggag tcggagaykg agacctacac agaggtggtg acagagtttg ggaccgagg 1320
ggagcccgak tttgggacca aggtggagcc cgaktttrag acccagtttg agcctgakt 1380
tgagaccacg ctggaacccg agtttgagga agaggaggag gaggagaaag aggaggagat 1440
agccactggc caggcattcc cttcacaaac agtagagacc tacacagtga actttgggga 1500
cttctgagat cagcgtccta ccaagacccc agcccaactc aagctacagc agcagcactt 1560
cccaagcctg ctgaccacag tcacatcacc catcagcaca tgggaaggccc ctggtatgga 1620
cactgaaagg aagggtcgtt cctgcccctt tgagggggtg caaacatgac tgggacctaa 1680
gagccagagg ctgtgtagag gctcctgctc cacctgccag tctcgtaaga gatggggtt 1740
ctgcagtgtt ggagtagggg cagagggagg gagccaaggt cactccaata aaacaagctc 1800
atggcamaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaattctcgg tcg 1853
```

<210> 21

<211> 1707

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<400> 21

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caattgtggc ccttggnatgt ncccgaactt gacgcaataa caaaanatgg cgtcagttgg 60
gggtccattgc aaaacagggg aaaaggggtg gggaaggngc cctccttcct tggggggaac 120
ccttttttgc cccaactctc agaangggcc cctaccgcgc cctcccgccg tctcccttc 180
acctaagttc ctccagagcc gtctccctgg gaattagccc tctcctaact ccgaccacag 240
aaagctcagc tttcaacctc agcttttggg gtttaggctg tagtccctaa gagagtctct 300
agaaaccctg cccctagtgt taagtctcgc ccaatgaaaa aacaaaagga gagggacaga 360
aggcggtggt gtgacgtaat gcgggttgat tggcatgcag gccttgagacg tccaggatta 420
gccacgcatt tcgccaatcc agaggcaggg gagggacggt gcaggcgcag agtattgggt 480
ttggctggcc tcgatttaaa gagacagaag ctgtcggggt cctggaagac ggtccccaat 540
accctcccc caagtccttg ggaccacttg ggtccccaga gctggggaga tggtttgg 600
cggctttgcc tgctccaaga atgcgctttg cgctctcaac gtggtctaca tgctggtgag 660
cttggtgctc attggagtgg ctgcttgggg caagggcctg ggtctggtgt ccagcatcca 720
catcatcggc ggagtcattg ctgtgggagt cttccttctc cttattgcag tggctggact 780
ggtgggtgct gtcaaccacc accaagtcct gctgttcttt tacatgatca tcttggtgtt 840
ggtcttcctc ttccaatttg taatctcttg ctcatgtctg gctattaacc gaagcaaaaca 900
gacagatgtc atcaatgctt cttggtgggt catgagcaac aagactcggg atgaactgga 960
aagaagtttt gattgttgtg gcttattcaa cctcacaacc ctgtatcaac aagattatga 1020
tttctgcaat gcaatctgca agagccagag ccccatatgc cagatgtgtg gagaaaagtt 1080
tcttaagcat tcagacgaag ccctgaaaat cctagggggt gttggactct tctttagctt 1140
tacagagatc cttggtgttt ggctarcat garatttcgg aatcagaaag gatcctagag 1200
ccaacccagc tgcctttcta tgaractttg gatcctctga mttttcttct gctctctcta 1260
agctttctct tcctccctta gggaatatct aggtctctga accgttttgg tttgagaaaa 1320
aggaaaggcc cttgtgcaca tcctctaaaa ttgatggaat agcaagactt tatgccttgg 1380
acatatttta gtgggagcca gactataagg aataaaaagga aaaactttct tcctctctct 1440
ccaagaggat atgggaagct tctgtgagt cataggatgg gggctggagt cattcttagc 1500
tgtttccctt cctctgtcca tatactggat cacctcaaca taccctgggt tggctctaag 1560
ggtaaatcag ggatagggcc aaggagaaaa caaccaagaa ctctttctct taataagcag 1620
gatccagttt gagaaagttt agcgaatata aaagtaaaa ccwtttaaaa atctatatct 1680
tttttttttt tttgacacag gttttgg 1707
```

<210> 22

<211> 870

<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (847)  
<223> n equals a,t,g, or c

<400> 22  
cctggccttga gtagggcaga gagcacgcc cagcagccag tgggttcccg cgcgtgccga 60  
gactctgagg ccttgacccc ccacgatccc gtacgatggc cgtcaagaag atcgcgatct 120  
tcggcgccac tggccagacc gggctcacca ccctggcgca ggcggtgcaa gcaggttacg 180  
aagtgacagt gctggtgcgg gactcctcca ggctgccatc agagggggccc cggccggccc 240  
acgtggtagt gggagatgtt ctgcaggcag ccgatgtgga caagaccgtg gctgggcagg 300  
acgtgtcat cgtgctgctg ggcacccgca atgacctcag tcccacgaca gtgatgtccg 360  
agggcgcccc gaacattgtg gcagccatga aggctcatgg tgtggacaag gtcgtggcct 420  
gcacctcggc ttctctgctc tgggacctta ccaaggtgcc cccacgactg caggctgtga 480  
ctgatgacca catccggatg cacaaggtgc tgcgggaatc aggcctgaag tacgtggctg 540  
tgatgccgcc acacatagga gaccagccac taactggggc gtacacagtg accctggatg 600  
gacgagggcc ctcaagggtc atctccaaac atgacctggg ccatttcatt ctgcgctgcc 660  
tcaccaccga tgagtacgac ggacacagca cctaccctc ccaccagtac cagtagcact 720  
ctgtcccat ctgggagggg ggcattcttg gacatgagga gcaaaggaa ggggcaataa 780  
atgttgagcc aagagcttca aattactcta gagaaaaaa aaaaaaaaaa aaatctccgg 840  
gggggggnccc gttccccatt ggccctttgg 870

<210> 23  
<211> 654  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (526)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (640)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (654)  
<223> n equals a,t,g, or c

<400> 23  
ggcagaggga tccagcccgg gagaggaccg agctggagga gctgggtgtg gggcgcttg 60  
ggctggtggg gaggcctagt ttgggtgcaa gtaggctga ttgagcttgt gttgtgctga 120  
agggacagcc ctgggtctag gggagagagt ccctgagtgt gagaccgcc ttccccggtc 180  
ccagccccctc ccagtctccc cagggacggc cacttcctgg tccccgacgc aacctggct 240  
gaagaacaac cgcagtcgaa ttgttcgtga aggctggcag tgatggggcc aagattggga 300

```
actgcccatt ctcccagaga ctgttcatgg tactgtggct caagggagtc accttcaatg 360
ttaccaccgt tgacacaaaa aggcgggaccg agacagtgc gaagctgtgc ccaggggggc 420
agctcccatt cctgctgtat ggcactgaag tgcacacaga caccaacaag attgaggaat 480
ttctggaggc agtgcgtgtgc cctcccaggt accccaagct ggcagntctg aamcctgagt 540
ccaacacagy tgggctggac atatttgcca aattttctgc ctacatcaag aattccaaac 600
ccagcactca attgacaatc tggagaaggg actcctgaan gccctgaagg tttt      654
```

<210> 24

<211> 1400

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<400> 24

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ggcagagggtg gaatccatgc caganaatgg atctctcctg ctttctgctt gtggttcata 60
ggccatataa ctcaattcta tgggataata gggcaatata ccaatctcct gaggcttgtg 120
gatttctatg ttatgccggg ggtaaatgtg gatggttatg aactactcat ggaaaaagaa 180
tcgaatgtgg agaaagaacc gttctttcta tgcgaacaat cattgcatcg gaacagacct 240
gaataggaac tttgtttcca aacactgggtg tgaggaagggt gcatccagtt cctcatgctc 300
ggaaacctac tgtggacttt atcctgagtc agaaccagaa gtgaaggcag tggctagtgt 360
cttgagaaga aatatcaacc agattaaaagc atacatcagc atgcattcat actcccagca 420
tatagtgttt ccatattcct atacacgaag taaaagcaaa gaccatgagg aactgtctct 480
agtagccagt gaagcagttc gtgctattga gaaaactagt aaaaatacca ggtatacaca 540
tggccatggc tcagaaacct tatacctagc tcctggagggt ggggacgatt ggatctatga 600
tttgggcacg aaatattcgt ttacaattga acttcgagat acgggcacat acggattctt 660
gctgccggag cgttacatca aaccacctg tagagaagct tttgccgctg tctctaaaat 720
agcttggcat gtcattagga atgtttaatg cccctgattt tatcattctg cttccgtatt 780
ttaatttact gattccagca agaccaaatac attgtatcag attattttta agttttatcc 840
gtagttttga taaaagattt tcctattcct tggttctgtc agagaacctt ataagtgcta 900
ctttgccatt aaggcagact agggttcatg tctttttacc ctttaaaaaa aattgtaaaa 960
gtctagttac ctactttttc tttgattttc gacgtttgac tagccatctc aagcaacttt 1020
cgacgtttga ctagccatct caagcaagtt taatcaawga tcatctcacg ctgatcattg 1080
gatcctactc aacaaaagga aggggtggta gaagtacatt aaagatttct gctccaaatt 1140
ttcaataaat ttctgcttgt gccttttagaa atacaacat gcattccgtt tgctccacgg 1200
taatttagcg atggcccaga aaggggagggt gtgtcaaaaa cgacaaacat agcctctcat 1260
tccagctcag ctgctcaata aacactgttg aacgaatgaa tgagtggctc taggtactgt 1320
caacaaatgc cgcattttgc gcattttaca cagctgttta tggtaaggaa ttatgtaata 1380
aaaagagaaa actcacttaa      1400
```

<210> 25

<211> 643

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (603)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<400> 25

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attaccctca ctaaaggga caaaagctgg agnccaccg cggcgccggc gctctagaac 60
tagtggtacc cccgggctgc aggaattcgg caccagcttc aagggtactt cgcggactgg 120
aacgctggcc gcgcaggccc tgagggtctg cggccccagt ggcgcggccg cgatgcgctc 180
catggcatct ggaggtggtg ttccactga tgaagagcag gcgactgggt tggagaggga 240
gatcatgctg gctgcaaaga agggactgga cccatacaat gtactggccc caaaggagagc 300
ttcaggcacc agggaaagacc ctaatttagt cccctccatc tccaacaaga gaatagtagg 360
ctgcatctgt gaagaggaca ataccagcgt cgtctggttt tggctgcaca aaggcgaggc 420
ccagcgatgc ccccgctgtg gagcccatca caagctgggtg ccccgagcgc tggcacactg 480
agcacctgca ctaaattact caaaatgtgc tgtaaagtgt cttctttcca gtaaagacta 540
gccattgcat tggctccttc tcccataaaa aaaaaaaaaa aaaaaactcn gggggggggc 600
cgnwaccaat tcgncctana gtgatcgtat ttanaatttc act 643
```

<210> 26

<211> 1131

<212> DNA

<213> Homo sapiens

<400> 26

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ctgccatttc ccaaataata actccagatt tcataattcc agtttttaca ttccgttacc 60
tttctgttac aaccattccc atcagcctt aaatctgagt ccttttttagc agcaactttt 120
ttcctgggat cctccttcgt ggtcttctaa gtcagtgtta gttttgaaat ttttggccct 180
gcataagtgc tgcatagcat ctaatgtcaa aatagaacca actggtaac acagtattat 240
ttagtgtggt ttccatgaca acaaaaatac atacgaagaa aacttctcag gttactatgc 300
```



```

tgaaattcca aaatgtctga gttttgaata gtgatcactt tgttctggta ttgacgcaat 360
tatattagga aaaaagttgg ttgactgttt ttgtttaatt gacttctaaa atgttcaaat 420
tgtctagttc taaaagttta ctaaagtcct agtgcagtta aacatactct tgtttaagtg 480
tgtgttgcta aatttttttac tgtcattact aaataatctg tgtggcaaaa tgtgtgtcag 540
cacttlyccc tcctttttta tctcctattt tcaggagtca aatgtagcca taaactgtat 600
ccttgtctga cacttttagct aaaaatttcc agttagggga gtttattgcc aaattaaatt 660
tggtgtttcc cccaaccca tatagatatt aaggaagggt tacttaaaaa atgtttggac 720
tgcttttaaa acctgagcaa tgtcattaat ccataatgtgg actagtgatg aatagatatt 780
ttcataagag tttaaagct gatatttggt ggaagtagag agtaactcat attctatcaa 840
ttcaagtatt cttactatgg ttgctttccc tatttgttca atagactgat aatactggaa 900
tttatagagt ttgagccatt acaacttttg tgaggatgtg tttcaaacat ttctggacaa 960
atcttatttt gtatttctgg aagaatgtag taatcttcta gaccgcttaa aaccaatgct 1020
cccaagctga atattcttga gaaatttggt tttattatgc cattgacatt caatcagtgc 1080
tcataacag taacttgtga tagraattgt attttattgc ttttgggtta t 1131

```

```

<210> 27
<211> 164
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c

```

```

<400> 27
cccacgcgtc cgcccacgcg tccgcaaata atggacctga tgttcaggaa cttggaagaa 60
acatgatagg aaaattgctg accaggaaat ttgggaaaga ggcattgtcaa tagacctttc 120
tttttttttt tttttttttt tttttttttt tttttttttt naaa 164

```

```

<210> 28
<211> 660
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

```

```

<220>

```

<221> misc feature  
<222> (627)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (653)  
<223> n equals a,t,g, or c

<400> 28  
ccgggagctg ggcgacgggc ctggcgagcg aactcgngng tctcactcag gcaccagccc 60  
ctccttgccc caggcttgag tgactcacng ccctattcag gcaggagctg ctcttctggg 120  
gtatcgcgat ccacttaagg atgaggcaga cttggtgaca agctggtctg agcagggtatg 180  
ggagccccct ggggagacgg aagaagggag gaagttgcct tctgcctggg gagggtttga 240  
gagggagagg gaagcctagg gctcccacca aggctgatat tgacagccag gggttggggc 300  
tgaagccagg aaccgtcrct ctctctggtt cttactggta gccctcatgg ggggccctga 360  
cgccagagcc tccaaggctg catgtgccag cccagggctg cccacatacc catgtatatc 420  
ccagaatagg caccagggta gggaacccaa actagcatga gtgacagagc aggtgggtcag 480  
ggagaaacag acatcaaacc cagccaggag agagacaccg caacagagag acagagaagg 540  
gaaaccagag acgagagggg aatgagacag agacggacag agcttcagag agtwaggaat 600  
gagcccaggg aaggttgaca gttgatngag aaaagcagca gacagagcag agnattcttg 660

<210> 29  
<211> 3136  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1467)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3061)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3089)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3111)  
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<220>  
<221> misc feature  
<222> (3113)  
<223> n equals a,t,g, or c

&lt;400&gt; 29

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<210> 30

<211> 2248

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (2220)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2247)

<223> n equals a,t,g, or c

<400> 30

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<210> 31

<211> 2047

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2011)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2033)

<223> n equals a,t,g, or c

<400> 31

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<210> 32

<211> 1835

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1801)

<223> n equals a,t,g, or c

<400> 32

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<210> 33
<211> 1299
<212> DNA
<213> Homo sapiens

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<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (520)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1287)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1291)
<223> n equals a,t,g, or c

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<210> 34

<211> 3340

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3298)

<223> n equals a,t,g, or c

<400> 34

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```

&lt;210&gt; 35

&lt;211&gt; 1490

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 35

```

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gggcctggct cctgggagtc cccgtctgcg gtgccgccga actgtccgtg aactccttag 180
agaagtttca ctcaagtca tggatgtcta agcaccgtaa gacctacagt acggaggagt 240
accaccacag gctgcagacg tttgccagca actggaggaa gataaacgcc cacaacaatg 300
ggaaccacac atttaaaatg gcactgaacc aattttcaga catgagcttt gctgaaataa 360
aacacaagta tctctggtca gagcctcaga attgtctcag caccaaaagt aactaccttc 420
gaggtactgg tccctaccca ccttccgtgg actggcgga aaaaggaaat tttgtctcac 480

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```

ctgtgaaaaa tcaggggtgcc tgcggcagtt gctggacttt ctccaccact ggggccctgg 540
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```

<210> 36

<211> 2855

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1164)

<223> n equals a,t,g, or c

<400> 36

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gtcagaccac gcgtccgccc acgcgtccgc tgctactcag agttgcaacc tcagcctcgc 60
tatggctccc agcagccccc ggcccgcgct gccgcactc ctggtcctgc tcggggctct 120
gttcccagga cctggcaatg ccagacatc tgtgtcccc tcaaaagtca tcctgccccg 180
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agagaccccg ttgcctaaaa aggagttgct cctgcctggg aacaaccgga aggtgtatga 300
actgagcaat gtcaagaag atagccaacc aatgtgctat tcaaactgcc ctgatgggca 360
gtcaacagct aaaaccttcc tcaccgtgta ctggactcca gaacgggtgg aactggcacc 420
cctcccctct tggcagccag tgggcaagaa cctacccta cgctgccagg tggagggtgg 480
ggcaccgccg gccaacctca ccgtggtgct gctccgtggg gagaaggagc tgaaacggga 540
gccagctgtg gggagcccg ctgaggtcac gaccacggtg ctggtgagga gagatcacca 600
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tgagaacacc tcggccccct accagctcca gaccttgtc ctgccagcga ctccccaca 720
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```

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gcttggggga acccattgcc cgagctcaag tgtctaaagg atggcacttt cccactgccc 1380
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```

<210> 37

<211> 990

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (976)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (990)

<223> n equals a,t,g, or c

<400> 37

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cctccagcat ttgtttcttg aaggagtcaa caccaacagc tctgacctgg gcagccttcc 120
tgagaaaatg cagccattcc tcctcctgtt ggctttctt ctgacctctg gggctgggac 180
agaggagatc atcgggggccc atgaggccaa gccccactcc cgcccetaca tggcctttgt 240
tcagtttctg caagagaaga gtcggaagag gtgtggcggc atcctagtga gaaaggactt 300
tgtgtgaca gctgctcact gccagggaag ctccataaat gtcaccttg gggccacaa 360
tatcaaggaa caggagcgga cccagcagtt tatccctgtr aaaagacca tccccatcc 420
agcctataat cctaagaact tctccaacga catcatgcta ctgcagctgg agagaaaggc 480

```

```

caagtggacc acagctgtgc ggctctcag gctacctagc agcaaggccc aggtgaagcc 540
agggcagctg tgcagtgtgg ctggctgggg ttatgtctca atgagcactt tagcaaccac 600
actgcaggaa gtgttgctga cagtgcagaa ggactgccag tgtgaacgtc tcttccatgg 660
caattacagc agagccactg agatttgtgt gggggatcca aagaagacac agaccggttt 720
caarggggac tccggggggc ccctcgtgtg taaggacgta gccaaggta ttctctccta 780
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gataaagaga acaatgaagc gcctctaaca gcaggcatga gactaacctt cctctggggc 900
tgaccatytc tgggacagag gcaagaatyc ccaaggggtg ggcagtcggg gttgcaggay 960
tktawtaatg gttttntggt gttaaaaaan 990

```

<210> 38

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<400> 38

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cccgggtcga ccacgcgtcc ggactcagag acggaaccag agacaggcca gagcatcccc 60
ctctccacc atgaaactcg ctgtcaccct caccctggtc aacttggtc tctgctgcag 120
ctccgcttct gcagagatct gcccgagctt tcagcgtggt catcgaaacc ctctcatgg 180
acacaccctc cagttatgag gctgccatgg aacttttcag ccctgatcaa gacatgaggg 240
aggcaggggc tcagctgaag aagctggtgg acaccctccc ccaaaagccc agagaaagca 300
tcattaagst catgggaaaa aatagcccaa agctcactgt gttaattagg catttttagga 360
agcttgaaga tcccccaact gggtccagcc tcttgccgtt gccatggttt ttggagttcc 420
acggnccacc agc 433

```

<210> 39

<211> 926

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (900)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (920)

<223> n equals a,t,g, or c

<400> 39

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cccgggtcga cccacgcgtc cgagagcata gcacctgcag caagatggat gtgggcagca 120
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ttccctgctg cccagtgcac ctgaaacgcc ttcttatcgt ggtggtggtg gtggctctca 240
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accagcagct gctgatcgcc tacaagccag cccctggcac ctgctgctac atcatgaaga 480
tagctccaga gagcatcccc agtcttgagg ctctcactag aaaagtccac aacttccagg 540
ccaagcccg agtgcctacg tctaagctgg gccaggcaga ggggcgagat gcaggctcag 600
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caccgcagga caarccctgg agaaatggga gcttggggag aggatgggag tgggcagagg 840
tggccccagg ggccccggaa ctctgccac aacagaataa agcagcctga ttgaaaagcn 900
aaaaaaaaa aaaaaaaatn gcccc 926

```

<210> 40

<211> 406

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (318)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<400> 40

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caacagggaa accagctaag gatctcagga gatgacggct gacctgagtc ctgaaggatt 60
catgctagga gtggaaggca ttcttcttag gctacttggg tatcaggaga cccagccctt 120
tccctgtgaa tatttgattt tacttcttgt gagtgttcag ctccctgctta acaacaggca 180
acatgaagag tgagattgga ggtgagaagg tacttatctg ctgcttgtga gcaagggaat 240
aagttgagag ccaagagcag cctgagcatc tttgtcctga cgatgggsta aggttcccag 300
cccytcytc cgaggaancc gaatgtkaag ggaactgaaa gacgcacctg ccaagcctga 360
aagtctccgt catccaagg ccaccaacaa cggcancatn ccctta 406

```

<210> 41

<211> 1501

<212> DNA

<213> Homo sapiens

<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (14)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (28)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (996)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1488)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1495)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1498)  
<223> n equals a,t,g, or c

<400> 41  
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gacatgtgga cgcgctgct catcctgcaa gccttggtgc taccctccct ggctgatggg 180  
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ttccacacgg cccgggaaat ggccaatgcc aaggagatcg ctcgactgt gcagatcctg 300  
ggtgcagact tcacctgtc tctaggggac aatttttact tctactggtg gcaagacatc 360  
aatgacaaga ggttccagga gaccttgag gacgtattct ctgaccgtc ccttcgcaaa 420  
gtgccctgg acgtgctagc cggaaccat gaccacctg gcaatgtctc tgcccagatt 480  
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aatttcatgg acccctcaaa gcggcaccag cgcaagggtcc ccaacgggcta tctgcgcttc 960
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atgactgtca cttacatcga ggccctcgggc aagtccctct ttaagaccag gctgccgagg 1080
cgagccaggc cctgaactcc catgactgcc cagctctgag gcccgatctc cactgttggg 1140
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ttcctcctaa atcaagcatc tttctgttac tgatgttcaa taaaagaata gttgccaagg 1440
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g 1501

```

<210> 42

<211> 1574

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1029)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1076)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1574)

<223> n equals a,t,g, or c

<400> 42

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tcacagagga gggaactgaa tgacatccca ggattacata aactgtcaga ggcagccgaa 180
gagttcacia gtgtgaagcc tggaagccgg cgggtgccgc tgtgtaggaa agaagctaaa 240
gcacttccag agcctgtccg gagctcagag gttcgggaaga cttatcgacc atggagcgcg 300
cgtcctgctt gttgctgctg ctgctgccgc tgggtgcacgt ctctgcgacc acgccagaac 360
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```

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gactcaaaact gccttggttt caggggagtc ccgtcaggac gttgaggact tttcgaccaa 1500
ttcaaccctt tgccccacct ttattaaaat cttaaacaac gaaaaaaaaa aaaaaaaaaa 1560
aaaaaaaaaa aacn                                     1574

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<210> 43

<211> 2196

<212> DNA

<213> Homo sapiens

<400> 43

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tcattttcct catcataaca tctgcgtggg gtgggagcaa aggcccgctg gatcagctag 120
agaaaggagg ggaactgct cagtctgcag atccccagt ggagcagtta aataacaaaa 180
acctgagcat gcctcttctc cctgccgact tccacaagga aaacaccgtc accaacgact 240
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<211> 3785

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<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

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<210> 45

<211> 480

<212> DNA

<213> Homo sapiens

<400> 45

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cgaagagaga cagaagagag gctgggawtc cgttcagcag agcatcacca tggtcaggag 420
caagattgat agattagaga cgacattagc aggcataaaa aacattgaca caaaggtaca 480
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<210> 46

<211> 1010

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (844)

<223> n equals a,t,g, or c

<400> 46

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<210> 47

<211> 3773

<212> DNA

<213> Homo sapiens

<400> 47

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<211> 1462

<212> DNA

<213> Homo sapiens

<220>

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<222> (952)

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<220>

<221> misc feature  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
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<211> 561  
<212> DNA  
<213> Homo sapiens

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561

<210> 50

<211> 1211

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1189)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1191)

<223> n equals a,t,g, or c

<400> 50

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acgggtgamac ccacggttac agagagcact ggaacaacca gccacaggac taccaagagc 180
cacaaaacca cactcacag gacaaccacc acaggcacca ccagccacgg acccagcact 240
gccactcaca accccaccac caccagccat ggaaacgtca cagtcatcc aacaagcaat 300
agcactgcca ccagccaggg accctcaact gccactcaca gtcttgccac cactagtcac 360
ggaaatgcca cgttcatcc aacaagcaac agcactgcca ccagcccagg attcaccagt 420
tctgcccacc cagaaccacc tccaccctct ccgagtctta gcccacctc caaggagacc 480
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cagattcgag tcatgtacac aaccagggt ggaggagagg cctggggcat ctctgtactg 600
aaccacaaca aaaccaaggt ccagggaagc tgtgagggtg cccatcccca cctgcttctc 660
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aaattattta t 1211
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<210> 51

<211> 1600

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (44)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1235)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1567)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1579)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1600)  
<223> n equals a,t,g, or c

<400> 51  
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atatctgagc tcatcctttg ccagaacgag gttgactacg ctctcaagaa ccttcaggcc 180  
tggaatgaagg atgaaccacg gtccacgaac ctgttcatga agctggactc ggtcttcatc 240  
tggaaggaac cctttggcct ggtcctcatc atcgaccctt ggaactaccc actgaacctg 300  
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tcttctctyt tcctgscttm agcttcttcc ttmagcsggt cccaaacatg agagccgagg 1560

ttggggangca ttgggaaana gtgcagtgac tcaaccctn 1600

<210> 52

<211> 1568

<212> DNA

<213> Homo sapiens

<400> 52

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ccacaacagc attacaccaa gaaaacaata agattaagga gctctctcaa gaagtggaaa 180
gactgaaact gaagctaaag gacatgaaag ccattgagga tgacctcatg aaaacagaag 240
atgaatatga gactctagaa cgaggtatgc twatgaacga gacaaagctc aatttttatc 300
taaagagcta gaacatgtta aaatggaact tgctaagtac aagttagcag aaaagacaga 360
gaccagccat gaacaatggc ttttcaaaa gcttcaagaa gaagaagcta agtcagggca 420
cctctcaaga gaagtggatg cattaanaa gaaaattcat gaatacatgg caactgaaga 480
cctaatatgt cactccagc gagatcactc agtcctgcaa aaaaaactaa atcaacaaga 540
aaacaggaaac agagatttag gaagagagat tgaaaacctc actaaggagt tagagaggta 600
ccggcatttc agtaagagcc tcaggcctag tctcaatgga agaagaattt ccgatcctca 660
agtattttct aaagaagttc agacagaagc agtagacaat gaaccacctg attacaagag 720
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1568

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<210> 53

<211> 1043

<212> DNA

<213> Homo sapiens

<400> 53

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agtctacggg gaccgcctcc cgcgcgcca ccatgcccaa cttctctggc aactggaaaa 180
tcatccgac ggaaaacttc gaggaattgc tcaaagtgt gggggtgaat gtgatgtga 240
ggaagattgc tgtggtgca gcgtccaagc cagcagtga gatcaaacag gagggagaca 300
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gtgagaataa aatgggtctgt gagcagaagc tcctgaagg agagggcccc aagacctcgt 480
ggaccagaga actgaccaac gatggggaac tgatcctgac catgacggcg gatgacgttg 540

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```

tgtgcaccag ggtctacgtc cgagagttag tggccacagg tagaaccgcg gccgaagccc 600
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ggatagcgct ccccttaccg cagtcacttc tgggggtcac tgggatgcct cttgcagggt 720
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ccctctagct tctacccttt gtccctgtag cctatacagt ttagaatatt tatttgtaa 960
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```

<210> 54

<211> 2571

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2556)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2570)

<223> n equals a,t,g, or c

<400> 54

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aacccttttc cattgaggat gtggagggtt cacctcctaa ggcttatgaa gttcgcatta 180
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aatgcagagt ttgtaaaaac ccggagagca actactgctt gaaaaatgat ctaggcaatc 420
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aagtaaataa agtgttgaac atcagctggg gaattgaagc caacaaacct tccttcttaa 1440
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<210> 55

<211> 1302

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1301)

<223> n equals a,t,g, or c

<400> 55

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catagctgtg ctgatgagcg ctccaggaatc atgggctatc aaagaagaac atgtgatcat 180
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cgtactctaa catctagctg gcttccctgt ctattgcctt ttccctgtatc tattttcctc 1080
tatttcctat cattttatta tcaccatgca atgcctctgg aataaaacat acaggagtct 1140
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```

<210> 56

<211> 1437

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1428)

<223> n equals a,t,g, or c

<400> 56

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tttgggtcag tgtcacctcc aggatacaga cagccccctc tcagcccagc ccagccaggt 180
ctctacacc gccaccatgc cattcggtaa caccacaac aagttcaagc tgaattacaa 240
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catgatcccc gcccagaagt aggcgcctgc cacctgccac cgactgytgg caggtctctt 1380
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<210> 57

<211> 2033

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1012)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1014)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1016)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1964)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2029)

<223> n equals a,t,g, or c

<400> 57

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gctgatggcc ttggtgacct agggagacct tgtgaagccg tctcggggcc cgctgggtgac 180
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ttagcaacag tccagagawg cctaaagtga ttcaatagcc caggagcacc tgattccttt 1620
ctgcctgcag gggctggggg ggtggggggc agtggatggt gccctatctg ggtagaggta 1680
```

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gtgtgagtgt ggtgtgtgct ggggatgggc agctgcgccct gcctgctcgg cccccagccc 1740
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cggcaggctc cctgacgcct ggctctctcc ccacccctat ggccagcatg gtgcaccccc 1860
taccactccc gggacaggat gcaaaagagg ctccagagtc agagtgccaa gccagggaat 1920
cccagtccca gactcagagc ccgggccttg caatttgccc cctnggccct tggatcaacc 1980
ccactgcccc accagagctg ccaaggtggc acaggggcct gttcaaccnc tgg          2033

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<210> 58

<211> 1832

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (423)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1778)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1805)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1814)

<223> n equals a,t,g, or c

<400> 58

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accaccagga ggtgatcctg gtgcagacgc gcgaggaggt ggtggcgggc gacgactcgg 180
acgggctgcg cgccgaggac ggcttcgagg atcagattct catcccggtg cccgcgccgg 240
ccggcgggca cgacgactac attgaacaaa cgctggtcac cgtggcgggc gccggcaaga 300
gcggcgggcg cgytcggtc gtcgtcggga ggcgnccgcg tcaagaaggc cggcggnaa 360
aagagcggca agaagagtta cctcagcggc ggggcgcgcg gcggcgggcg sggcgcaccc 420
gngcaacaa gaagtgggag cagaagcagg tgcagatcaa gaccctggag ggcgagttct 480

```

```
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ttcctcctgg aggaatacct ggcattgacc tctcagatcc caaacaactg gcagaatttg 660
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ataaaggctg cacaaagatg ttcagggata actcggccat gagaaaacat ctgcacaccc 780
acgggtcccag agtccacgtc tgtgcagaat gtggcaaagc ttttggtgag agttcaaaac 840
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gttttgataa agtagtaaaa attaaaaaaa aaaaacttta ctaagatgac attgctaaga 1260
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tgtatcgtat agctgtattg aatccatgta ggtatccaaa tattaggatg tgatttaata 1740
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<210> 59

<211> 1406

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1382)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1399)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1400)

<223> n equals a,t,g, or c

<400> 59

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tggggttaggc agggggcgagg cttacagggt atggtggatt caaagactcc ctgatttgtg 180
attggttaag gaagcaaagc tttgtctaaa aacttggggt ccgcagaaaag gaacattaag 240
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tgtatatatt gcttagcatc atacatttgc catgttgttt catcatctgc ctaatttact 660
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taaaattgct tttcttctga aaagaacaag tattgttcat ccaagaaggg tttttgtgac 780
tgaatcagca gtgcctgccc tagtcatagc tgtgcttcar aaacctcagc atgattagt 840
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ctattttgta ataattaaac tttgatgttg agaaatcaca actttattgt acacttcatt 960
gcaacttgaa attcatggtc ttaaagtga atttgaattt ctattgagcg cctttaaaaa 1020
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taaacataaa ttgtatttcc tgttttaatt ccagggaag tactgtttgg gaaagctatt 1140
attaggtaaa tgttttacia attactgttt ctacttttca gtcataccct aatgatccca 1200
gcaagataat gtcctgtctt ctaagatgtg catcaagcct ggtacatact gaaaacccta 1260
taaggtcctg gataattttt gtttgattat tcattgaaga aacatttatt ttccaattgt 1320
gtgaagtttt tgactgttaa taaaagaatc tgtcaaccat caaaaaaaaa aaaaaamcc 1380
wngggggggg ggncccccann ccccc 1406
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<210> 60

<211> 265

<212> DNA

<213> Homo sapiens

<400> 60

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cggcgcctsc gtccccagcc gcggtctcggg aatccaccgc aagagtggct ataaacgtcc 120
gcgcctccat tgcgctctcc tyttcactta ggacactggt cctcccacgc ctgacaycga 180
cgtcgccagg accgcggggg tkggggaamt ttggctgtcc caygtcttcc aaataaagct 240
gttttgtcta actcaaaaaa aaaaa 265
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<210> 61

<211> 937

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (882)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (890)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (923)  
<223> n equals a,t,g, or c

<400> 61  
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cactcaacca tgtgctagct ggagtgatct ttattcacia tgtctttaca aaggctcctg 120  
caacacagca gcaatggcaa tttggcggac ttctgcgctg ggccagcgta tagctcttac 180  
tccacactca ccggcagcct tacgatggac gataatagaa ggattcaaatt gctagcagac 240  
acggtggcta ctctgcctcg gggacgaaag cagcttgctt tgaccagatc aagttcttta 300  
agtgactttt cctgggtctca aagaaagctt gttactgtgg agaagcagga taatgaaaca 360  
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aatgggtgga gtacagatct ctgcagttac aggaacatcg tctgcttcat ggtgatgcag 720  
ctaattgccc cagtttgga aaacatggga cttgggatgg aattgtcttt gtttggacct 780  
ctgcctgggc cagggccagc ccttgtggac cggaatcgat tatccagtga gagcagctgt 840  
taaaagctgg ctgagctcca tgacgatggg acattgaaaa tngctaccan acttttgttt 900  
cttaaggact ccagcagggg ggnccctcaa atcgggc 937

<210> 62  
<211> 712  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (672)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (697)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (707)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (711)  
<223> n equals a,t,g, or c

<400> 62  
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ggkgagaggg tccttcctag cctcgccccg ccgggtcggt tcctggctgg tgtctgctga 120



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tagtgccctt tggggatatc aggaacaccc tcccagcagg ggatgggaac cctgtcccat 300
gaagccctct cctcagcttt acttgctccc ccgcccttag ccttggggag aaatggcccg 360
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tattgttgct tctgaaccac aaactgtata aatggatggt tttttgcaa aaaaaaaaaa 660
aaaaatgccc cncgaggggg ggcccgttac caaatngcc ctaaagngag ng 712
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<210> 63

<211> 1058

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1026)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1048)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1051)

<223> n equals a,t,g, or c

<400> 63

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atcttacttt ttcttctcar atttctccct tcctagaaca ttctctctgt ttagactata 180
tgttcacctc gtattttttg gaagtgcaa aatctcaatt tgtgtctgtt tacagctctc 240
tctcctcact gctcacagca aggggttctg tatcagtga ttctattttg tagctgctga 300
gatgttaagg caagcctcag catctgcccc ygctgggtgc acaatgctgc ttctcgaag 360
agaagacaca gagtccaagt ggcaggactt gaggttggct tccactctgc cttagaagtt 420
aattttccaa agtacattac aaatctctga ggccattagg ggaaaaggaa ggggtgtggt 480
ttgtctttga aattacggtt aatactttta gacagtaagt ccggctggtt gcagggtat 540
ttgccccgac agcatcagcc tgtaacattt cttctctttc ctttgtgcca ctgagtcggt 600
ccctggccag aggacataaa tgggtgctggt aggaggttat cagagtaagg aaggtagcag 660
atataggtgc aggggtcctg tcattcactg tgttatttgg tttaaataca agtgattctg 720
ggggaagcta tgctctttca gtggataata aaattggtta ctctattgta aaacatgtca 780
atgggtgtgtg aagaaaaatc aaccaatctg taggtgttga taactagaca gtactgtgta 840
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ccagagttcg tagatcctgt tttggggttt gcacatggat cgtatgttaa gctttttctt 960
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<210> 64  
<211> 2691  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (2653)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2667)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2683)  
<223> n equals a,t,g, or c

<400> 64  
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aagggtgata tggggcctcc aggagttcca ggatttcaag gtccaaaagg tcttcctggc 180  
ctccaggga ttaaagggtga tcaaggcgat camggcgctc cgggagctaa aggtctcccg 240  
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cctgagggcc ccccagggt gaaagggtt cagggactgc caggcccga aggccagcaa 360  
ggtgttacag gattggtggg tatacctgga cctccaggta ttctgggtt tgacggtgcc 420  
cctggccaga aaggagagat gggacctgcc gggcctactg gtccaagagg atttccagg 480  
ccaccaggcc ccgatgggtt gccaggatcc atggggcccc caggcacccc atctgttgat 540  
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<210> 65

<211> 1517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (548)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1380)

<223> n equals a,t,g, or c

<400> 65

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actttggcct caacgtgnaa gcttttctgg gagaaagttt gttccacag attgtcccc 180
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tcagcgtgac ctggacctgc tgggcaggat ccaggggtga acctgcctgt gaactctgaa 780
gtcactagtc cagctgggtg caggaggact tcaagtgtgt ggacgaaaga aagactgatg 840

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<210> 66

<211> 1128

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1009)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1071)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1075)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1079)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1085)

<223> n equals a,t,g, or c

<400> 66

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aaaataagga cttgattgtc aggcctatat taggttctga accttaatgc catgtatttg 180
tacttactaa aaattgtttc aatgaaaagt acattagcag tatgaacttc tgggtccagtt 240
ggaagttttt ccatttgaaa aatgtgatgt ttgcatggaa ctgtttgaaa cttttttatt 300
ttctagtccc cctccccccac actggataga atttagccta gaattttccc tttggataaa 360
agaacaaaaa ttgaacatgt tatttgtaaa ttgatgttta gtaattagtg ataaacttga 420

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&lt;210&gt; 67

&lt;211&gt; 1028

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 67

```

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acctcttc 1028

```

&lt;210&gt; 68

&lt;211&gt; 2133

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 68

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gagcccgaag ctgcagaggg tgacggtgat aagaagggga atgcagaggg cagcagcgac 420

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actcgagggg gggcccgtag ccaatcgccc tag 2133

```

<210> 69

<211> 1636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<400> 69

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gatcttgagg ttgccactgt agtatgcaa ccaaatgagt tcataatgcc ggacagcgcc 240
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gcagggtttaa tgcacacatt taatgcccat gcggccacag atatcacagg ctttggcatt 480
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aaaaaagggc ggccgc 1636

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<210> 70

<211> 1465

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (916)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1459)

<223> n equals a,t,g, or c

<400> 70

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```

<210> 71

<211> 1772

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1728)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1752)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1756)

<223> n equals a,t,g, or c

<400> 71

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aggagaccac tgctgacaga tacacagaga agagatcaga gaggaaaaac tgggaagaca 180
taaataaatt ataccagcc atgaaacaat gccaaactgtc tcttcctaa ggaagagtac 240
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```



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```

<210> 72

<211> 1163

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (433)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1163)

<223> n equals a,t,g, or c

<400> 72

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```

<210> 73

<211> 2922

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2884)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2903)

<223> n equals a,t,g, or c

<400> 73

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gcatagtctt aatttgtaaa aaataaagaa aattccttaa cctttaaaaa aaaaaaaaaa 2880
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```

<210> 74

<211> 1578

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (267)

<223> n equals a,t,g, or c

&lt;400&gt; 74

```
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cccccggcac ccctccccct cgggcgccag ccmaccctc cggcgcccg gccgaccccg 120
ccgtactatc ccctgcggcg cgagccgggg cggtccaag cggcccccag cagaccccca 180
tcatgggcag ccagagctcc aaggctcccc ggggcgacgt gaccgccgag gaggcagcag 240
gcgcttcccc cgcgaaggcc aacggcnagg agaatggcca cgtgaaaagc aatggagact 300
tatcccccaa ggggtgaagg gagtcgcccc ctgtgaacgg aacagatgag gcagccgggg 360
ccactggcga tgccatcgag ccagcaccctc ctagccaggg tgctgaggcc aagggggagg 420
tccccccaa ggagaccccc aagaagaaga agaaattctc tttcaagaag cctttcaaat 480
tgagcggcct gtccttcaag agaaatcgga aggaggggtg gggtgattct tctgcctcct 540
caccacaga ggaagagcag gagcaggggg agatcggtgc ctgcagcgac gagggcactg 600
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cttgtctttt tttctccac tgttgtaa atctttta atggccaaacc cagatttgta 1440
cttttttttt ttttctaact gctaaaacca ttctcttcca cctggtttta ctgtaacatt 1500
tggaagga ataatgtcg tccctttaa aaaaaaaaaa aaggcgggcc gctctagagg 1560
agccaggctg agtaggcg 1578
```

&lt;210&gt; 75

&lt;211&gt; 3233

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1088)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2749)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3201)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 75

```

aaggcatgcc tggactcaaa gggagaccgc ggtttccagg gagcaaaargc raakgytggg 60
tttttcggaa taccgcgtct gaagggtctg gctggtgagc cagggttttaa aggcagccga 120
ggggaccctg gggccccagg accacctcct gtcctcctgc caggaaatgaa agacattaaa 180
ggagagaaaag gagatgaagg gcctatgggg ctgaaaggat acctgggcgc aaaaggatatc 240
caaggaatgc caggcatccc agggctgtca ggaatccctg ggctgcctgg gaggccgggc 300
cacatcaaaag gagtcaaggg agacatcgga gtccccggca tccccggttt gccaggattc 360
cctggggtgg ctggcccccc tgggaattacg ggattccagc gattcatagc aagccggggt 420
gacaaaagggt cccagggag agcaggcctg tatggcgaga ttggcgcgac tgggtatttc 480
ggtgacatcg gggacactat aaattttacca ggaagaccag gcctgaaggg ggagcggggc 540
accactggaa taccaggtct gaagggtattc tttggagaga agggaaacaga aggtgacatc 600
ggcttcccctg ggataacagg cgtgactgga gtccaaggcc ctcttgact taaaggacaa 660
acaggctttc cagggtgac tgggcctcca gggctgcagg gagagctggg gcggattgga 720
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```

ccccactgcc ccacsttgtc cctgagattt aaccctcca ctgctggggg tgagctgtac 3120
tcttctgact gccccctcct gtgtaacgac tacaaaataa aacttggttc tgaatatattt 3180
taaaaaaaaa aaaaaaaaaa naaaaaaaaa aaaaaaaagc aaaacaaaaa ggg          3233

```

&lt;210&gt; 76

&lt;211&gt; 1670

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (26)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 76

```

cttttaaaat tgatcacaac gagggnaaac aaaataaaat tagggggcaa agggtaggag 60
tatgggggga ggggagagca aacctatcga atatatctta gaattttgct cagaaatcac 120
tgctgcctct caagtgttgc attgtccctg cctaaaccaa gaaggctaaa caaagcccct 180
cctgtttgaa ttcttaaggt aagaaatttc taagctaaga aaacactatt gcctaaaacc 240
aatgatagtg gagctcattt acaaataggc atgcctcaca cacacagtcc aaaggcaaga 300
cactggcttt gaaattaggc tcatgatgtg attcctatta tatgtacctg attttttttag 360
gccccaggta tgtggaccag agttaatgtc atgactcttc aaagatatga tgaaaagtgtg 420
ccctagaaat ctagagatgc atgtttattt aattccatag tttaaaaaaa aatttaagca 480
ggtagttgtg gcttatcttg gggcaaaata atatatgtga aattgcttcc agaggacaaa 540
gtatattttc taaagtccctg aaataggatc atgaaccctt ctgaagtttt ggtttgaaat 600
attatagtat atgatattac caaagagccc ttaattcaga gtttaagggg ctctcttcct 660
gaactctctt catcactcag gggtgaatgt gtaatgttcc ttgctattga ttgttattgt 720
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tcagktcttg cgttttatat taggtaacag ttttgtgatg cttttgtgcr ttctttgtca 1620
tctcttctga gttttcgaat ctgtcataaa taaacttttt cactatgcaa          1670

```

&lt;210&gt; 77

&lt;211&gt; 1177

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

<222> (1155)

<223> n equals a,t,g, or c

<400> 77

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ccaaggtcgc cgacaggaga atggctgccg cgagactctg agtgccacct ctgcatgtcc 60
gtgaccaccc aggccgggaa cagcagcgag caggccatac cacaggcaat gctccaggcc 120
tgktktggct cctggctgga cagggaaaag tgcaagcaat tkttgagca gcacacgccc 180
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ccacaccgcc ctctcaccg cccttcctcg gsagtcactt cactgggtgg accacgggcc 480
cccagccctg tgctggcctt gtctgtctca gctcaaccac agtctgacac cagagcccac 540
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caggggggtg aagctgagcc ccgcctcaca cccaccccca tgcactcaa gattggattt 720
tacagctact tgcaattcaa aattcagaag aataaaaaat gggaacatac agaactctaa 780
aagatagaca tcagaaattg ttaagttaag ctttttcaa aaatcagcaa tccccagcg 840
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cctgtgtaat acaatgtctg caccartgct aataaagtc tattctcttt tatgagaaaa 1140
aaaaamaccc ttccntttaa agtgctgca gttttgg 1177
```

<210> 78

<211> 829

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (685)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (822)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (825)

<223> n equals a,t,g, or c

<400> 78

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ggggcaacca ggggaagatg ggggtgctgga ggagagcttg tgggagccaa ggagcacctt 120
ggacatcttg agtctggcag gagtgatgac ggggtggagg gctagctcga ggcagggctg 180
gtggggcctg aggccagtga ggagtgtgga gtaggcgccc aggcacgtg cagacagggc 240
gacatcagct ggggacgatg ggcctgagct agggctggaa agaaggggga gccaggcatt 300
```

```

catcccgggtc acttttggtt acaggacgtg gcagctggtt ggacgagggg agctggtggg 360
cagggtttga tcccagggcc tgggcaacgg aggtgtagct ggcagcagcg ggcaggtgag 420
gaccccatct gccgggcagg tgagtccctt ccctccccag gcctcgcttc cccagccttc 480
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ttttagttag caaggcacia gggcagcttc cggcacggct ttcttcaagc cttattgccc 780
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```

<210> 79

<211> 1143

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1126)

<223> n equals a,t,g, or c

<400> 79

```

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gasccccga gggcagcggc cggaatcggc tctcccggtt gcgggaagcg ggcgtcgctc 120
ggacccagga cactacagtt tctctatgcg atctccagag ctcgctttac cccggggaat 180
gcagcccaca gaattcttcc agtccctggg tggggacgga gaaaggaacg ttcagattga 240
gatggcccat ggcaccacca cgctcgctt caagtccag catggagtga ttgcagcagt 300
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gattaaccct tacctgcttg gcaccatgtc tggctgtgca gcagactgtc agtactggga 420
gcgcctgtg gccaaaggaat gcaggctgta ctatctgcga aatggagaac gtatttcagt 480
gtcggcagcc tccaagctgc tgtccaacat gatgtgccag taccggggca tgggcctctc 540
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gta 1143

```

<210> 80

<211> 1226

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1223)

<223> n equals a,t,g, or c



&lt;400&gt; 80

```

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ctaacttacc acatgcttgg tgtactatat gtaykwtgtg cctcatatgt tgcaaagaac 120
taagggtgagt atagcctact agatatgggc aatatccagc ctagatgatt ggaaagatac 180
cagtttaagt aaacttggtg aaatccaagt cttttttttt ttttttccag gaacaactac 240
atcttctcat atacaggtag ctaggggcaa cacagttcca ttctagaggg aaacaaaagg 300
gagagcccca caaaactttg gggacaaggg agagagagac tcatctgaca cttcttttgg 360
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tgtgagtga cctagaacag cactgaagta ttacataacc tggaagactg agaagggtat 480
attatttgar ggatcttttt atttcccga ggtctttcgc actggagaca gcataaaaga 540
gtgaacaaat gttgggatga gagaagatga catcaatgtg ggagttcagt ataactgggg 600
ataaactaga agaacctgtg attttacagt catcttatta cctgccaggg ctcatctagc 660
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aatttccttt gtattttttt aagaaaatat taaaaatcaa cgggtctcaa aaaaaaaaaa 1200
aaaaaaaaaa aaaaaaaaaa aancct 1226

```

&lt;210&gt; 81

&lt;211&gt; 574

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (359)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 81

```

tttagagaaa gaagaatatg caacagaaac tgtatgtagc ctgcaaagcc taaaatgttt 60
actctctggc ttgggagttt gtctcccctg ctctagactg tcagcaagtg gtacagtggg 120
acagtacagt ggtactgccc aactgcactt ctctgcaagg tgattctagt gtgcacttgt 180
cagaatgaaa atatgttatt catttaagac atctcatgtc tttgaatgta atcacatgat 240
ttgtatttaa tatttacatg acctaatat tttttcacgt cagtttttct arattggcaa 300
tagcctgttg caaagtgccct aaacctttga graaaattac tatgarcaag gtccatgant 360
ttagttttcc aatataaagg gaattccmtt ctatactgta aatccaaaaa tgctagtgtc 420
cctcagcttt tgagttgact tccagaaagt tgaratcttt tgaccatttt ttctcatgtc 480
atataaaatg tgccacatgg ttarttgtca agctgtggtg gtcattgtaca ctttkkkkct 540
tttttttaac tttctaaaaa gaaaagttca aagt 574

```

&lt;210&gt; 82

&lt;211&gt; 2043

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>  
<221> misc feature  
<222> (1980)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1982)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2043)  
<223> n equals a,t,g, or c

<400> 82  
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ggccgcccga gggactttga acatgtcggg gatcgccctc agcagactcg cccaggagag 180  
gaaagcatgg aggaaagacc acccatttgg ttctgtggct gtcccaacaa aaaatcccga 240  
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cctgtccatc ttagaggagg acaaggactg gaggccagcc atcacaatca aacagatcct 480  
attaggaata caggaacttc taaatgaacc aaatatccaa gaccagctc aagcagaggc 540  
ctacacgatt tactgcaaaa acagagtggg gtacgagaaa aggggtccgag cacaagccaa 600  
gaagtttgcg ccctcataag cagcgacctt gtggcatcgt cagaaggaag ggattgggtt 660  
ggcaagaact tgtttacaac atttttgcaa atctaaagt tctccataca atgactagtc 720  
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cgctgaattg cccgtttcca tacagggtct ctcccttcgg tcttttgtat ttttgattgt 840  
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aaacttttat acttgggtaa gtccccagg ggcgagttcc tcgctctggg atgcaggcat 960  
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ccggccargc ttcttggggc tgctgagcc actgcaggaa gtggcctggc tgggaagttg 1920  
ggtgcccgtc aactcccagc aggaaggcac agtggacaga gatgggaagc cctgggggan 1980  
anagcccgtt gctcccagcc ctcaaaactt tgggtcccaa ccattttcc ccatcctagc 2040  
gan 2043

<210> 83  
 <211> 1056  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (928)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (941)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (997)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1044)  
 <223> n equals a,t,g, or c

<400> 83  
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 acgtgtggtc ttttggaatc ttactcacag agctggtcac caaaggaaga gtgccatacc 180  
 caggcatgaa caaccgggag gtgctggagc aggtggagcg aggctacagg atgccctgcc 240  
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 agaacgcccc acttttgagt acttgacagag cttcctggaa gactacttta ccgcgacaga 360  
 gccccagtac caacctgggtg aaaacctgta aggcccggtg ctgcggagag aggccttgct 420  
 ccagaggctg cccaccct cccattagc tttcaattcc gtagccagct gctccccagc 480  
 agcggaaaccg cccaggatca gattgcatgt gactctgaag ctgacgaact tccatggccc 540  
 tcattaatga cacttgctcc caaatccgaa cctcctctgt gaagcattcg agacagaacc 600  
 ttgtttatttc tcagactttg gaaaatgcat tgtatogatg ttatgtaaaa ggccaaacct 660  
 ctgttcagtg taaatagtta ctccagtgcc aacaatccta gtgctttcct tttttaaaaa 720  
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 ttattttcca aaagtggcct ctttgtctaa aacaataaaa ttttttttca tgttttaaca 840  
 aaaaccaawm aggacaggtg tttgtttttg ttttcttttt tataaatatg gaatatatat 900  
 aatatatatg tccctggtag atatacangt ggggggtgcta ngtgggagac tgtggggcgg 960  
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 gccttcaagg cacccggtgg tttnttcttg gaaaac 1056

<210> 84  
 <211> 2099  
 <212> DNA  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1846)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 84

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catttccggt gggggcgccg cgccagttag gggccggaag tgggtcgcg cgagattgct 60
gggcggttct tgccggaagc ggagagcggc tgatcgagc ccggaggtga ggcggaactc 120
tgagcgtggt ccattatggc tgacatgcaa aatctggttag aaagattgga gagggcagtg 180
ggccgcctgg aggcagtatc tcatacctct gacatgcacc gtgggtatgc agacagtcct 240
tcaaaagcag gagcagctcc atatgtgcag gcatttgact cgctgcttgc tggctcctgtg 300
gcagagtact tgaagatcag taaagagatt gggggagacg tgcagaaaca tgcggagatg 360
gtccacacag gtttgaagtt ggagcgagct ctgttgggta cagcttctca gtgtcaacag 420
ccagcagaaa ataagctttc cgatttgttg gcacccatct cagagcagat caaagaagtg 480
ataacctttc gggagaagaa ccgaggcagc aagttgttta atcacctgtc agctgtcagc 540
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gaactgagcg gactgccatc tggaccctct gccggatcag gtccctctcc ccctccacca 840
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gcactgttcg cgagatttaa tcagggggag agcattacac atgccctgaa acatgtatct 960
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aagaaggagc cagctgtact tgaactggag ggcaagaagt ggagagtgga aaatcaggaa 1140
aatgtttcca acctggtgat tgaggacaca gagctgaaac aggtggctta catatacaag 1200
tgtgtcaaca cgacattgca aatcaagggc aaaattaact ccattacagt agataactgt 1260
aagaaaactg gcctggtatt cgatgacgtg gtgggcattg tggagataat caacagtaag 1320
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gcgggtggga aaatagtatt tactctggtc cgagaggtct gagccccgag gagctctttc 2040
gccccggaag aaaaagcgcg gtggtgcggt agacacctct ggcctgggg gcgctccat 2099
```

&lt;210&gt; 85

&lt;211&gt; 3103

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (293)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 85

```

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atatattgct tgactatcta gacttatact taacaggtat ttacatcttt gaacacagaa 120
cagctgatgg agaaagaagc attataaata atatacataa actcagtttg tacagataat 180
ccgtaatttt taatgtttta cttgtctaaa tgctatatgt aatatctttc atcagttttt 240
ttaaagtaat tatcctttca tattggtttt ttcccaccaa ataaaaccat tanaggacca 300
gagatcaaga agcccarag gatgtacaag tcaggccaga ggatactcct tcagatctca 360
gtgttagtaa ttccagtgtc atactggaaa acacgatgga agaccatgct gctgaggcat 420
ccgggaagcc tctaggtgaa attagtgttc cactggacag ctctttactt tgtactttgt 480
cctcagaatc tcaccaggaa gcagctagta atgagaatga taaaaacyt ggtaactaca 540
aatctatgtt acgaccagag gttggcacca ctccacaaga ttcagctctc ttagatcagg 600
aattgtataa ctccctccat ttctggagga ctccctcttc tgaaatagat ctagacatag 660
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tgtttttaac ttgatcatga tcagctctga ggtgcaactt cttcacatac tgtacatacc 2880
tgtgaccact cttgggagtg ctgcagtctt taatcatgct gtttaactg ttgtggcaca 2940

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tgattgtttt ctagatgtct accaataaat gcaatttggtg acctgtaaaa aaaaaaaaaa 3060
aactcgaggg gggcccggtg cccaaatcgc cgatatgatc taa 3103

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```

<210> 86
<211> 901
<212> DNA
<213> Homo sapiens

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```

<400> 86
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ctgctccttg cgctcagcac cgctgcccag gccgaaccgg tgcagttcaa ggactgcggt 180
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a 901

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```

<210> 87
<211> 559
<212> DNA
<213> Homo sapiens

```

```

<400> 87
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gcatctgact tcagtgaagt tccttatgac ttcccctgaa attgcttcct tatcatgggg 180
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tgaggccttg aaggtgcctt catcaactgt ggagtacctc aagaaacatg gcattgatgt 420
gcgggtcctc cagacagagc aggcagtga ggagtataat gccttggttg ccaaggggtc 480
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taagtgcwa aaaaaaaaaa 559

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<210> 88
<211> 2287
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature

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<222> (2204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2275)

<223> n equals a,t,g, or c

<400> 88

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cccagaagag cgtcacctga acaagatgca gaacctggc tatgagaacc ccacctaca 2160
atacctggag cagatgcaga tttaggtggc agggagcgcg gcanccctgg cgaggggatk 2220
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 ggggggtt 2287

<210> 89  
 <211> 607  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (535)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (541)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (542)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (547)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (592)  
 <223> n equals a,t,g, or c

<400> 89  
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 tcctttttta cccaacaaag gcttattttt ttccatcctt tgcttgggst caagcactcc 360  
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 gaccaacaat ggggccckgc ttcataagatt tgggaatggt tggcttaagc tgccaatgga 480  
 ctgaaggcct ttaattccca ccggccagtc acagyctgct ttgggtggtg cctgntgatg 540  
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<210> 90  
 <211> 2338  
 <212> DNA  
 <213> Homo sapiens



<220>  
<221> misc feature  
<222> (121)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (125)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2333)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<400> 90  
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nggancaata caggggagca ggtggctgtt aaatctctga agcctgagag tggaggtaac 180  
cacatagctg atctgaaaaa ggaaatcgag atcttaagga acctctatca tgagaacatt 240  
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caatacgttc accgggactt ggcagcaaga aatgtccttg ttgagagtga acaccaagtg 480  
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aaggatgacc gggacagccc tgtgtthtg tatgtccag aatgtthaat gcaatctaaa 600  
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caaaccrttg gccactctat atgcactttg tttactcttt atacaaataa atatactaaa 2220
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<210> 91

<211> 1274

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1264)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1268)

<223> n equals a,t,g, or c

<400> 91

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cgggtgtccgc catggccaaa gcctacgacc acctcttcaa gttgctgctg atcggggact 180
cggggggtggg caagacttgt ctgatcattc gctttgcaga ggacaacttc aacaacactt 240
acatctccac catcgaattt gatttcaaga tccgcactgt ggatatagag gggaagaaga 300
tcaaactaca agtctgggac acggctggcc aagagcgggt caagacaata actactgcct 360
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<210> 92

<211> 1411

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 92

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aaaaaaaaa aaaaattcgg ggggggcccc g                                     1411

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&lt;210&gt; 93

&lt;211&gt; 729

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (54)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (69)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 93

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gaaagatgna tttgaagctc tgaatttata tagtcaccta taaaatgttc tttatatgtg 120
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aatgaaagct atatctattc taaaccttat ttagacattg gtaccagtta cccagggtgaa 240
aatatggagt aactttgttt tgtatggtaa ggtttaggaa tgggtggatga agggatatctc 300
tatataaata aagtgtctca caatgtgcaa tgattgtaaa tttagtaaga tattacagcc 360

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atttcatgaa tgctttacca ttcaacatag tatctattac aaaacacctt tcttgtatcc 420
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tcacattaaa tgtttattct ttaaaatgaa tgtattatgt ttttaacca caaatgcata 540
cttaccctgt gcctcatatt tcaatagtag tgtaatatgg acatcttttg tgaaatactt 600
ttattttgtt atgctttaaa tatacatata aaaagatttc tgttattagc tttgaaaatt 660
gtataatatc ctaatatata caaaaatata aaaataaaaa tgaatacagt aaaaaaaaaa 720
aaaaaaaaa 729

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<210> 94

<211> 1795

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (213)

<223> n equals a,t,g, or c

<400> 94

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ggatgataca ccactgactt tctttgtttg gaatacacgt tatgaaccct ttctggagca 180
tgtctacaag ctctgtacgc aaacgatctg aangtgaaga gaagacatta acaggggacg 240
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gaagcagaag ctaccaggcg tctatgtgca gccatcttat cgctctgcat taatgtggtt 480
tgagtaata ttcatacggc atggacttta ccaagatggc gtatttaagt ttacagttaa 540
catccctgat aactatccag atggtgactg tccacgcttg gtgttcgata ttcctgtctt 600
tcacccgcta gttgatccca cctcaggtga gctggatgtg aagagagcat ttgcaaaatg 660
gaggcggaac cataatcata tttggcaggt ataatgtat gcaaggagag ttttctacaa 720
gattgatata gcaagccccc tgaaccacga ggctgcagta ctgtatgaaa aagatattca 780
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<210> 95

<211> 757  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (719)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (743)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (749)  
<223> n equals a,t,g, or c

<400> 95  
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tctgagcaca catctaggat ttttgatttc tttctcaa acagtacata ttcmtttttt 180  
ccyaacttag agattgcmaa cctgtgatct ttgaatcaga tctgtgccac aaatttttgt 240  
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<211> 888  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (329)  
<223> n equals a,t,g, or c

<220>  
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<222> (332)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (647)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (688)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (780)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (805)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (809)  
 <223> n equals a,t,g, or c

<400> 96  
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 cctacagaca ggcatgtgta gaaggcaatt tatcaaacct attgcactgc catgaaaagt 240  
 gtgtataata atttgctagc ccaagcaagc tagttttctt tgcttgcttc ttttctttct 300  
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 aatatataaa tatacataga cataaaaata ctgtatgtga cagcacatag agtagttttc 540  
 ccacacaaa gttaattttt atgcatgctt taaaagtata tatcgggagc gccagaaatg 600  
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 tccaagaacg aaatgttact gttancgant ttaatgtttt tccgctttga aggatttacc 840  
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<210> 97  
 <211> 2551  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (2546)  
 <223> n equals a,t,g, or c

<220>

&lt;221&gt; misc feature

&lt;222&gt; (2550)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 97

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aaacctcctc acagttttca tccagccacg ggccagcatg tctgggggca aatacgtaga 120
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caacaaggcc atggcagacg agctgagcga gaagcaagtg tacgacgcgc acaccaagga 240
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aatctgtaaa ctgtgtattc caagacatgt ctgttctaca tagatgctta gtccctcatg 2400
caaatcaatt actggtccaa aagattgctg aaattttata tgcttactga tatattttac 2460
aattttttat catgcatgtc ctgtaaaggt tacaagcctg cacaataaaa atgtttaacg 2520
gttaaaaaaa aaaaaaaaaa aaaaanaaan a 2551
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&lt;210&gt; 98

&lt;211&gt; 1106

<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (43)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1081)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1099)  
<223> n equals a,t,g, or c

<400> 98  
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tgggaggaat gggatggagc ctccacctca tggaaagtagc ttcctttgga ggtggctatg 180  
gcagggtcttc ggagagaata tgcttttaag gctattaacc aggggtggcct tacatcagta 240  
gctgtcagag ggaaagactg tgcagtaatt gtcacacaga agaaagtacc tgacaaatta 300  
ttggattcca gcacagtgc tcaattatc aagataactg aaaacattgg ttgtgtgatg 360  
accggaatga cagctgacag cagatcccag gtacagaggg cagctatga ggcagctaac 420  
tggaataaca agtatggcta tgagattcct gtggacatgc tgtgtaaaag aattgccgat 480  
atttctcagg tctacacaca gaatgctgaa atgaggcctc ttgggtgttg tatgatttta 540  
attggtatag atgaagagca aggccctcag gtatataagt gtgatcctgc aggttactac 600  
tgtgggttta aagccactgc agcgggagtt aaacaaactg agtcaaccag cttccttgaa 660  
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acagttgaaa atcctaaatt caggattcct acagaagcag agattgatgc tcaccttggt 840  
gctctagcag agagagacta aacattgtcg ttagtttacc agatccgtga tgccacttac 900  
ctgtgtgttt gtaacaaca aaccaacatc atggagggtcc ctggattgaa aaaggagcct 960  
ctcccactcc tcctaccacc gaagtgggta ggactctata taaataaaaa caaggctttt 1020  
ggaaaaawaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080  
naaaaaaaaa aaaaaaana aaaaaa 1106

<210> 99  
<211> 1268  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (112)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature



&lt;222&gt; (932)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1203)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1207)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 99

```

ggcacgagta ggcctctcct gctgctgaat gacaagcctg cgrggaagg cttgattacg 60
atcgctgccc aggagctgtc cgacaaccgc gtcacacac taagcctggc gngcaggagg 120
ctggacaaga aggacctctt tgggaagtca gaccctttc tggagtttta taagccagga 180
gacgatggca agtggatgct ggtccacagg actgaggtga tcaagtacac actggaccct 240
gtgtggaagc cattcacagt gcccttggtg tccctgtgtg atggggacat ggagaagccc 300
atccaggtca tgtgtacgg actatgacaa tgacgggggc catgacttca tcggcgagtt 360
ccagacctca gtgtcacaga tgtgtgaggc tcgagacagc gtcccgtgg agttcgagtg 420
catcaacccc aagaagcaga ggaagaagaa gaactataaa aactcgggca tcatcatcct 480
gcgatcctgc aagataaacc gagactactc cttccttgac tacatcctgg gaggtgccca 540
gctcatgttc accgttgaa tagactttac agcctccaac gggaatcccc tcgacccttc 600
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ttgggcagat cattcaggac tacgacagtg ataagatgtt tccagctctg ggattcgggg 720
cccagttacc cccagactgg aaggctctccc atgagtttg catcaacttc aacccacca 780
accccttctg ctgaggtgtg gatggtattg cccaggcgta ctcagcttgc ctgccccaca 840
tccgttcta cggctctacc aatttctccc ccacgtgcaa ccacgtggcc cggtttgcg 900
cccaggccac acaacagcgg acggccacgc antacttcat cctcctcatc atcacggacg 960
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ttcgttcct tttcgagatt tccgcaaagc agcaaagag aacttggcca aagctgtgct 1200
ggncggnatg gcccacaaca ttgttgcat atttcaagca taaaaaactg gcccccaac 1260
aaattcgg                                     1268

```

&lt;210&gt; 100

&lt;211&gt; 1143

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1143)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 100

```

tttgtatcaa aacttgaaat tcctctatct ctattgggat ataaaagcct tccccttcag 60
tgaagaaaac atttatcttt tatttgattc ctaggattta gtaaaactta gctgtctatt 120
taaaatgtac tgaggcacia caagtattat actggaagac ttgccaaact ggcaaagctt 180

```

```

taagttcatc agcattctat gtggttcaga gctgtgattt ttgcaaagta ttttaccaac 240
ctcctcgatg gctttgataa aggttagatt tgatgttttt ttttagattt atttttctta 300
ctccactaaa ctataaagaa aataattact tagaaactcc attttaaata atcatttcct 360
agaaattcctt aaatatatac agaattttta agaaaacatt tcatctgatt tagttagcat 420
ccacatatca ttgaggaatt aaagtgtggg acagtcatta ttaaaaaaaa gagagaaaag 480
ccctctatta gacattccac aatccatgtt ttaagcttat ccaaagggtcc aaatgtcagc 540
cattctgtat gttcatgttg atcatttgcg aacaagaaag caggtttcta ggtatcactt 600
aggatgtgaa ctgcctctca actttaaacc ctggttagctt tactttttta agtccacaag 660
tgatgaaact agtttctcag ctaggcttgt actttcctca ttatttctag tatttcaa 720
attctcaaac aaaagagtta ccacttttct ccattttatt tcagttatgg aaatgttccc 780
tctcttcacc actaagctcc aaagcaaagt aaagacgatc acatgtcagg acagtagtaa 840
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attggaggaa ggggagataa tgggaagagg atggcgctt cctgagttgg ctagagggcc 1080
aacctttgat aacagtttga cgaaatcaat cttttttttt tttttttggg aagggccctt 1140
ttn

```

1143

&lt;210&gt; 101

&lt;211&gt; 585

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (455)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (508)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (522)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (540)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (551)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (585)

<223> n equals a,t,g, or c

<400> 101

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ggaacattga aataaaggaa gtgttcctta gttcccgtgt gaaagcagag gaacccatga 60
catccaaggg cgtgaaaagga tcagagctga ctggacatag tgagctgcct tcttgcgctc 120
gggtgcaccc ctgttaaacc tgatctgtgt cataagtga tccggatgca tcagtgtcca 180
ccagttggaa gcaatgacaa ggatggctgg ctggtgtttt tcagccttcc ggtttataga 240
ctgtatttat ctagtggatt cctgcaggcc ccatactgag cctggactga aagtatccac 300
tcggaccatc tgttatctct ctacactgaa aataaaacct cttccaccca cccattcgg 360
ttcttctgcc tgacctcaa atgccatgt tggcctttta cagcagtgcc acggcaccaa 420
gcgagctgcc acatctcaca ctctaaaggg ttgnaacta ttagttcttg tcatttttta 480
aaaaaaacca ttcccaagtt gaaattgntt atatccgtct gntcttgctg gtgtcaraan 540
ctgggttttt ngtggaagg tcccaaaaca aaggcaacac cattn 585

```

<210> 102

<211> 579

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (553)

<223> n equals a,t,g, or c

<400> 102

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gacggctgcg agaagacgac agaaggggag tccccaccto tctcagcttc cggttggtag 60
tagttccgct tcctgtccga ctgtggtgtc tttgctgagg gtcacattga gctgcaggtt 120
gaatccgggg tgctttagg attcagcacc atggcggaag acatggagac caaatcaag 180
aactacaaga ccgccccttt tgacagccgc ttccccaacc agaaccagac tagaaactgc 240
tggcagaact acctggactt ccaccgctgt cagaaggcaa tgaccgctaa aggaggcgat 300
atctctgtgt gcgaatggta ccagcgtgtg taccagtccc tctgccccac atcctgggtc 360
acagactggg atgagcaacg ggctgaaggc acgtttcccg ggaagatctg aactggctgc 420
atctcccttt cctctgtcct ccataccttct ccaggatgg tgaaggggga cctggtaccc 480
agtgatcccc accccaggat cctaaatcat gacttacctg ctaataaaaa ctcattggaa 540
aaaaaaaaaa aanaaaaaaa atcggggggg ggcccgtaa 579

```

<210> 103

<211> 405

<212> DNA

<213> Homo sapiens

<400> 103

```

tccatccggg tgccccattc cggstccctg ggwgatcagt gttgtragtg catgtraaat 60
gggggatccc cccccccagt gcccttcccc ttcttggggc ccactcacac tacacctct 120
tcctttccca cccacctcc ccggagagaa actggacatg gggcctgggg aggggagctg 180
gccagaggag gacccctttc ccgtggcatt agaaggggga ggggtggctg gggcccccac 240
ccattcccc tccctccaaa ctccaaccc ccagtcagt tttgagcctc ctcgttcccc 300
tcacgcaccc gctcacgcac cctcggtgaa tccttggtga tgattttggc aactttggga 360
ataaatggca attcccacgg amwaaaaaaaa aaaaaaaaaa aaaag 405

```

<210> 104

&lt;211&gt; 2158

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 104

```
gaggcctgtc ggagtcagct ccttcagac tgggtggcgc acagcccagc acaggcgtgc 60
cgctggtrac ggggtacacc acctacrac cgcaccattc agcattctcc cagatggtga 120
wcagcttcta ctatgggggc aagctggtgg gccaggccac caccacctgc cccgagggct 180
gccgcctgtc cctgagccag cctgggctgc ccggcaccac gctgtatggg cccgagggcc 240
tggagctggt gcgcttcccg ccggccgacg ccatccccag cgagcgacag aggcaggtga 300
cgcggaactg ttcgggcacc tggagcgagg ggtgctgctg cacagcagcc ggcarggcgt 360
gttcgtcaag cggtgtkcc agggcccggt gttctkcagc ggcaacggtt ggtgtgcaaa 420
ggcaggccca acaagctgga gctgatgagg tgggccaggt ctctgacacc agccagttct 480
tccgagagct gcagcagttc tataacagcc arggccggct tcctgacggc arggtggtgc 540
tgtgctttgg ggaagagttc cgatatggc cccttgcgc tccaaactca ttctcgtgca 600
gattgagcag ctgtatgtcc ggcaactggc agaagaggct rggaagagct gtggagccgg 660
ctctgtgatg caggcccccg aggagccgac gccagaccag gtcttccgga tgtttccaga 720
tatttgtgcc tcacaccaga gatcattttt cagagaaaac caacagatca ccgtctaagt 780
gcgtcgcttg ggcgccccac ccgctctgag tcctgcattc atctccctgt tacagtggcc 840
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taatttaata agggcattct cggaggagta gacgtttaat acgaatgggc ggcatagccc 960
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aatttgaggt ttaaaaatca acttgtgaaa acaaggttgt ttttgtcttt atcktttgtt 1200
agagttatag atttatgatt tcataggctt gattctatgt gaaatatctt tttactttta 1260
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tcccgcattc agaacctccc agtgaaaggg cagccttcat tttgagaagg tggaaagggt 1680
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cctgtggagg ggacagtcag acccagaggt cctttacgtg tggatggagt tcacaggcga 1860
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taagaatggc agacctgttt gctgaagtgt tcataagata acaataggct tgaatctcca 1980
attcaaatga atgtcaaagc acatatcttt aatatgctga atgaatatatt atttttgtat 2040
ccattaaaac agtatattga tctcttttat tctttattaa aataaaatgc tcttttttaa 2100
aaaaaaaaa aaaaaaaaaa aaaaaaagg gcggccgctc tagaggatcc ctcgaggg 2158
```

&lt;210&gt; 105

&lt;211&gt; 867

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 105

```
ggcagagctg tgctgcacag ggggaggaga gggaaaccca ggcgcgagcg ggaagagggg 60
acctgcagcc acaactctct tggtcctctg catcccttct gtccctccac ccgtccctt 120
ccccaccctc tggccccac cttcttggag gcgacaaccc ccgggaggca ttagaaggga 180
```

```
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gtccwgtgcc tggggacagc ggtgccctcc acgggagcct cgaagagcaa gaggcaggct 360
cagcaaattg ttcagcccca gtccccggtg gctgtcagtc aaagcaagcc cggttgttat 420
gacaatggaa aacactatca gataaatcaa cagtgggagc ggacctacct aggcaatgcg 480
ttggtttgta cttgttatgg aggaagccga ggttttaact gcgagagtaa acctgaagct 540
gaagagactt gctttgacaa gtacactggg aacacttacc gagtgggtga cacttatgag 600
cgtcctaaaag actccatgat ctgggactgt acctgcatyg gggctgggag agggagaata 660
agctgtacca tcgcaaaccg ctgccatgaa gggggtcagt cctacaagat tggtgacacc 720
tgaggagagc cacatgagac tgggtggttac atgttagagt gtgtgtgtct tggtaatgga 780
aaaggagrat ggacctgcaa gcccatagyt gagaagtgtt tgatcatgct gctgggactc 840
ctatgtggtc rgagaacgtg ggagaag 867
```

<210> 106

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<400> 106

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agaagcagga actccaggat cccaaaccag agcagaccct atagtaaagt atttttacat 60
cttttccttt ccccaagaaga gatccctaac ctattgtttt attgacagcc ttgctgtag 120
aggctctttc ccagaagttg gacgaagagg ctccagcggt gctgtttctt gtcttccaag 180
tcaagtgggt actctggtaa tggattgcct ctctccgagc tttcaccctg gtgagactgt 240
ccagatctag tctgtaaacc cagcttagaa gcaactgtgt aaaaatgact gaagagccca 300
tcaaggagat cctgggagcc ccaaaggctc acatggcagc gacgatggag aagagcccca 360
agagtgaagt tgtgatcacc acagtycctc tggtcagtga gattcagttg atggctgcta 420
caggggttac cgagntctcc tg 442
```

<210> 107

<211> 1468

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (811)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1464)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1467)

<223> n equals a,t,g, or c

<400> 107

```

ggagcatctg tgggattttg gtatccacgg ggggttcctgg gaaccaatcc cctgtggata 60
ccaaggggac ggtatacact cacctccaaa accctccttg caccccaatc tgccctagac 120
accacctcct gatggcctca tccctgggtca agggcgaggag ttgggagatg gctasatsgg 180
garcggtatt tctgaatttc tgtttccagt gttctctgar gcttaatggg aacattttctc 240
ttaggaggat ccaaaccac tcttggggga catgaggccg cgctgcatga cttgctgaac 300
ggcacaggga cccctcgagg aacaagggtg cacaccagct ttcagccacc atgactgtgg 360
ggagtggctg gaccaarggc tgacctccc gactgcatca aagttgggga accaagtctc 420
agagtgggc gggggccttt cgatatcac atgggacaga ggaagagccc ggctggaatc 480
tgacttacct ggaccgctgt ccttgtgagg cattgaatgc ccagtgcagt atccgagaga 540
ctgtttaata acctgtcttc ccagccaatt ggtggtgctg gaatccccta ngagccttca 600
gtctgggaga aacagagcca gacatagaca gttccagcat cacagaacca gaagaagaga 660
cctgcaactg tgagartcca gacaggaagc agagaaggcg tccttgygga aagggcattt 720
tagctgaggc tttggagtac gaataggagc tcagcaggca gacgaatgag gaataaagg 780
cagagaaggt cagagctgag tgacgtttgg naatccaccc cgtttattgt agaactggg 840
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tcccagccct ggctggggca gggccccggc ctgggactca gcatttctga tatgccttaa 1380
gaattcatc tgttttgtac aattattttt taaaagtaaa cgtgtggaga aagaaaaaaa 1440
aaaaaaaaa aaaaaaaggg gggncnc 1468

```

<210> 108

<211> 2488

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1134)

<223> n equals a,t,g, or c

<400> 108

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cgcgtcctgc ctgcagagag ccaggccgga gaagccgagc ggcgcagagg acgccagggc 60
gcgcgccgca gccaccacc ctccggaccg cggcactgct gaccgcctat cgccatggcc 120
cgcgggaaag ccaaggagga gggcagctgg aagaaattca tctggaactc agagaagaag 180
gagtttctgg gcaggaccgg tggcagttgg ttttaagatcc ttctattcta cgtaatat 240
tatggctgcc tggtggcat cttcatcgga accatccaag tgatgctgct caccatcagt 300
gaatttaagc ccacatatca ggaccgagtg gccccgccag gattaacaca gattcctcag 360

```

```

atccagaaga ctgaaatttc ctttcgtcct aatgatccca agagctatga ggcataatgta 420
ctgaacatag ttaggttcct ggaaaagtac aaagattcag cccagaggga tgacatgatt 480
tttgaagatt gtggcgatgt gcccagtgaa ccgaaagaac gaggagactt taatcatgaa 540
cgaggagagc gaaaggtctg cagattcaag cttgaatggc tgggaaattg ctctggatta 600
aatgatgaaa cttatggcta caaagagggc aaaccgtgca ttattataaa gctcaaccga 660
gttctaggct tcaaacctaa gcctcccaag aatgagtcct tggagactta cccagtgatg 720
aagtataacc caaatgtcct tcccgttcag tgcactggca agcgagatga agataaggat 780
aaagttggaa atgtggagta ttttgactg ggcaactccc ctggttttcc tctgcagtat 840
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ttcaccaatc ttaccatgga cactgaaatt cgcataagat gtaaggcgta cggtgagaac 960
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<210> 109

<211> 1891

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1869)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1891)

<223> n equals a,t,g, or c

&lt;400&gt; 109

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&lt;210&gt; 110

&lt;211&gt; 1559

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 110

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&lt;210&gt; 111

&lt;211&gt; 585

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (569)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 111

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&lt;210&gt; 112

&lt;211&gt; 2388

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2269)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2296)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2387)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 112

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&lt;210&gt; 113

&lt;211&gt; 2303

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 113

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&lt;211&gt; 751

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<220>  
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 <223> n equals a,t,g, or c

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ccttggttga tgatctggg tctcctctgg agcactctgc cctcctgtca cccagtagag 3000
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<210> 116

<211> 888

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (841)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (883)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (885)  
<223> n equals a,t,g, or c

<400> 116  
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gggtcccggg aagcgcagtg tggtcaggcg ctctcgtggag gttggccggg tggctatgtc 180  
tcctttggac ctcatgccgg aaaattggtc gcgattgtag atgttattga tcagaacagg 240  
gctttggctg atggaccttg cactcaagtg aggagacagg ccatgccttt caagtgcag 300  
cagctcactg atttcatcct caagtttccg cacagtgcct accagaagta tgtccgacaa 360  
gcctggcaga aggcagacat caatacaaaa tgggcagcca cagcatgggc caagaagatt 420  
gaagccagag aaaggaaaagc caagatgaca gattttgatc gttttaaagt tatgaaggca 480  
aagaaaatga ggaacagaat aatcaagaat gaagttaaga agcttcaaaa ggcagctctc 540  
ctgaaagctt ctcccaaaaa agcacctggt actaagggtg ctgctgctgc tgctgctgct 600  
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gctccaaaaag ctcaagaagg tcaaaaaagct ccagcccaga aagcacctgc tccaaaggca 780  
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naaaaaaaaa aagaraaaaa aaaayycggg gggggccggt acncnatt 888

<210> 117  
<211> 446  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (21)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (35)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (44)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<400> 117

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ggccttaagc ttgggcctca naagccctgg aacantgggg taanttccca actcctcttt 60
gtcctgtaag tttcctgaaa tttccttaac aaagaaacat gtaataaaga aaatatgaac 120
aaaaagttat ttttataaaa taaagggaca cttcccaggc aatttcagtc ttttaagaaaa 180
gctaaggctt gtttggtttt ttgtttattt ttaggttttt ggtgtcctca tgacctaac 240
tcatccagc gagtagagac tgggagggga gagcagcagc tggagggcag gctgggagcg 300
cttgtgaggg agaggagcta tggacgtctg cttctctgcc aaggagagaga gtgaggtagg 360
cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 420
ttatttactg ngaatggnag ctttgt                                     446
```

<210> 118

<211> 264

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<400> 118

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ggcacgagca aacttcacat agccaaacag ttgaagagac ctcatcataa atagactatc 60
ctatatcaca gtaacgaga ataaaaaagg aatgtggcat gaaagcataa aaataaaaaac 120
atctcagata ataatataga gaaaaccaa atacatgggc tagaattcca cccaggggac 180
tgtatcctca aagacacagg tttttcttcc tttttctttt tttttctttt tcatgtttca 240
gtactctgag cagctacaaa anga                                     264
```

<210> 119

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (546)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<400> 119

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tggaaccctg gccgagtccg aaaaaagcca gatctggaag gtggctgcgg aacggtttta 60
```

100

```
agcggaagat ggaggagccg gaggaaccgg cggacagtgg gcagtcgctg gtcccggttt 120
atatctatag tcccaggtat gtcagtatgt gtgactccct ggccaagatc cccaaacggg 180
ccagtatggg gcattctttg attgaagcat atgcactgca taagcagatg aggatagtta 240
agcctaaagt ggctccatg gaggagatgg ccaccttcca cactgatgct tatctgcagc 300
atctccagaa ggtcagccaa gagggcgatg atgatcatcc ggactccata gaatatgggc 360
taggttatga ctgcccagcc actgaaggga tatttgacta tgcagcagct ataggagggg 420
ctacgatcac agctgcccga tgctgattg acggaatgtg caaagtagca attaactggt 480
ctggaagggt gcacatgca aagaagtaag mamatgacct tctgtttctg acyctttccc 540
ttgagnaagt ttcctngtat gtaaccctta t 571
```

&lt;210&gt; 120

&lt;211&gt; 1299

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 120

```
aagggtacgcc tgcagggtacc ggtccggaat tcccgggtcg acccacgctg ccgctctgag 60
gctctttcca acgtgtgtaa aaaggacaga ggctgttccc tatggcagaa ggcaaccaca 120
gaaaaaagcc acttaagggtg ttggaatccc tgggcaaaga tttcctcact ggtgttttgg 180
ataacttggg ggaacaaaaat gtactgaact ggaaggaaga ggaaaaaaag aaatattacg 240
atgctaaaac tgaagacaaa gttcgggtca tggcagactc tatgcaagag aagcaacgta 300
tggcaggaca aatgcttctt caaacctttt ttaacataga ccaaatatcc cccaataaaa 360
aagctcatcc gaatatggag gctggaccac ctgagtcagg agaacttaca gatgccctca 420
agctttgtcc tcatgaagaa ttcttgagac tatgtaaaaga aagagctgaa gagatctatc 480
caataaagga gagaaacaac cgcacacgcc tggctctcat catatgcaat acagagtttg 540
accatctgcc tccgaggaat ggagctgact ttgacatcac agggatgaag gagctacttg 600
agggctctgga ctatagtgtg gatgtagaag agaactctgac agccagggat atggagttag 660
cgctgagggc atttgctacc agaccagagc acaagtcctc tgacagcaca ttcttggtac 720
tcatgtctca tggcatcctg gagggaatct gcggaactgt gcatgatgag aaaaaaccag 780
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gcaatcattt gaaactccaa gggccaaagt caatgscac ctwgracgat ktcttgacag 1200
ttttttacyc tttctgggat ttaattggagc tcagcagcca cctcttataa ttttaaggag 1260
tcttgtcatt gatttaaatt tgcttcatca agggggacg 1299
```

&lt;210&gt; 121

&lt;211&gt; 1649

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1643)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 121

```
ccgattctac aggtcacgga aaaagcactt gatcaccacc cagacagaac acaaagtgtg 60
```



```

cttggactcc tgcggttcac tggaagctga gggctttcag gtcacctacc tcccagtgc 120
gaagagtggg atcattgacc taaaggaact agaggctgct atccagccag atactagcct 180
ggtgtcagtc atgactgtga acaatgagat tggagtgaag cagcctattg cagaaatagg 240
gcggatttgc agttccagaa aggtatatatt ccatactgat gcagcccagg ctggtggaaa 300
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cctttgacct aatggagcta gaaatatgtc tgtgactcca ccagttattc taataatttg 1560
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aaaaaaaaa aaaaaaaaaa ttnctgctg 1649

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<210> 122

<211> 2785

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1900)

<223> n equals a,t,g, or c

<400> 122

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gactttgaga ttgagtcaca acagctggaa gcagagctct ggagtcggat aatagacagc 120
aagtttctaa aacagcaaaa gaaagatgtg gtcaaacggc aagaagtaat atatgagttg 180
atgcagacag agtttcatca tgtccgcact ctcaagatca tgagtgggtg gtacagccag 240
gggatgatgg cggatctgct ttttgagcag cagatggtag aaaagctgtt cccctgtttg 300
gatgagctga tcagtatcca tagccaattc ttccagagga ttctggagcg gaagaaggag 360
tctctggttg ataaaagtga aaagaacttt ctcatcaaga ggatagggga tgtgcttgta 420
aatcagtttt caggtgagaa tgcagaacgt ttaagaaga catatggcaa gttttgtggg 480
caacataacc agtctgtaaa ctacttcaaa gacctttatg ccaaggataa gcgttttcaa 540
gcctttgtaa agaagaagat gagcagttca gttgttagaa ggcttggaat tccagagtgc 600
atattgcttg taactcagcg gattaccaag taccagttt tattccaaag aatattgcag 660
tgtaccaaag acaatgaagt ggagcaggaa gatctagcac agtccttgag cctggtgaag 720

```

```

gatgtgattg gagctgtaga cagcaaagtg gcaagttatg aaaagaaagt gcgtctcaat 780
gagatttata caaagacaga tagcaagtca atcatgagga tgaagagtgg tcagatgttt 840
gccaaaggaag atttgaaacg gaagaagctt gtacgtgatg ggagtgtgtt tctgaagaat 900
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<210> 123

<211> 1968

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1909)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1942)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1948)  
<223> n equals a,t,g, or c

<400> 123  
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agagccgggc tgcggtgtgt gcccacttg cgccttgggc ttggggatgc cctgcggggt 180  
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cctgcacaca ctgatgcacg ggcaaggcgt gtgcatggag ctggcggaga tcgaggccat 300  
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ttccaccca agcagtggtca cccagctctg gatgggcagc gtggcaagtg ctggtgtgtg 660  
gaccggaaga cgggggtgaa gcttccgggg ggccctggagc caaaggggga gctggactgc 720  
caccagctgg ctgacagctt tcgagagtga ggccctgccag caggccaggg actcagcgtc 780  
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tcatccagcc acctaaaaac atttactgac catgtactac gtgccagctc tagttttcag 1140  
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gaacctatcc ttccagtggc tcgctccctg tagctctgcc tccctctcca tatctcttc 1740  
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ggaaggagac ttaggaacct accagttggc catgatgtct tttcttcttt ttcttttttt 1860  
taacaaaaca gaacaaaacc aaaaaatgtc caaaaaaana aaaaaaana aaaagggggg 1920  
gccggtacca attcgcctat antgatcntt tacaatcatg gccgcgtt 1968

<210> 124  
<211> 1705  
<212> DNA  
<213> Homo sapiens

<220>

<221> misc feature  
<222> (773)  
<223> n equals a,t,g, or c

<400> 124

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aatttttgagg ctcccttctg atgaaaattg agctgtccat gcagccatgg aaccggggtt 120
acagcagtga gggggccacg gctcaagaaa cttacacatg tccaaaaatg attgagatgg 180
agcaggcgga gggccagctt gctgagttag acctgctagc cagtatgttc cctggtgaga 240
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agacaatgga ggggcgatct tcaaaagtct actttactat caatatgaac ctggatgtat 360
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<212> DNA  
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<220>  
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (2370)  
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<212> DNA  
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<220>  
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<223> n equals a,t,g, or c

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<210> 127

<211> 1514

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<400> 127

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<210> 128

<211> 2049

<212> DNA

<213> Homo sapiens

<400> 128

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<210> 129

<211> 1266

<212> DNA

<213> Homo sapiens

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<222> (120)

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<220>

<221> misc feature



<222> (1222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1235)

<223> n equals a,t,g, or c

<220>

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<222> (1243)

<223> n equals a,t,g, or c

<400> 129

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<210> 130

<211> 1095

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1068)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1081)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1095)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 130

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&lt;210&gt; 131

&lt;211&gt; 2890

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2886)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 131

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111

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caagcatgtc ttagaataat ctatgtgttg atgcatgtaa attgtacttt aggtaggcaa 840
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aaaaanaaaa 2890

```

&lt;210&gt; 132

&lt;211&gt; 567

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (567)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 132

```

gcctccctcc cctggctctc atatgaacag gagaaagaag cgcttaccca ctctttccgg 60
gaggccagtt ctaccagca ggagaccata gacagactga cctcacagct ggaggctttc 120
caggccaaaa tgaagagggt ggaggagtcc attctgagcc gaaactataa gaaacatatc 180

```

```

caggattatg ggagccccag ccagttcttg gagcaggagc tggagagctt acactttgtc 240
atcgagatga agaattgagcg tattcatgag ctggacaggc ggctgaccc catggaaaca 300
gtgaaagaga aaaaattctgat attggaggaa aaaattacga ccctgcaaca ggaaaatgag 360
gacctccatg tccgaagccg caaccagggtg gtcctgtcaa ggcagctgtc agaagacctg 420
cttctcacgc gtgaggccct ggagaaggag gtgcagctgc gsgacagct tcagcaggag 480
aaggaggagc tgttttaccg ggtccttggg gccaatgcct cgcctgcctt ccctctggcc 540
cctgtcactc ccaactggaaa ggggggn

```

&lt;210&gt; 133

&lt;211&gt; 786

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 133

```

gcgaccgcct ggtgcagtag cgcggcgagg tgcasgccat gctcggccag agcaccgagg 60
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gatgacctgc agaagcgccct ggcatgttac caggccgggg cccgcgaggg cgccgagcgc 180
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caggccgagg ccttcagggc ccgcctcaag agctggttcg agcccctggt ggaagacatg 480
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tcctgggggt gacctagtt taataaagat tcaccaagtt tcacgcaaaa aaaaaaaaaa 720
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggc ggccgctcgc gatctagaac 780
tagtcc

```

&lt;210&gt; 134

&lt;211&gt; 1221

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 134

```

aattcggcac gaggccagct actcgagagg ccaaggcacg agaatacatt gaaccagga 60
ggtggagggt gcagtgaaact gagatcacgc cattgcactc cagcctagct aaaaaattgc 120
caaagaatga accacaaaat ccaggagcaa attctgccag aggaagagga gtagacctta 180
ccgaaccac acaaccaacc aggaatcagt gttgtagtaa ctaaacctct agtttgaaact 240
agctggaata gtcttctgct tcctaaatgt taataacaat ggaattggag catttaacca 300
gccagtatg acttccaaaa gaagagactt atgataagat caagtttcta atacagaatt 360
attttaagtg ttttgaactt aatttttaat aacatgcag ggtccctctc actaatgttt 420
caacaatagg gaaaaatgag aactatgttg acactgttt cattggaagg ttagggggaa 480
taattttctc tactaggaa tatagacaaa tgactgtctg ggcccacaca gttaccagc 540
ccatttctcc aactgggtac agtagtcacc tgtgaaaaaa aaaattggaa cttactaatt 600
tggtgttttc aaaaacattc tttgtttaga aggagattct aaagttattt atgatgctta 660
gccatagtat tcaggcaaat gttcatttct cctgttacct gtatttaaaa tgtacattcc 720
acattttaat aaattaacca caagaaaata atcccacata tacaagggtc ggggtgggga 780
agagtattaa tggatatctta attataacca gtctggtttt ttttttttaa atggggtaaa 840
aatcaaatgc aaccccatct tgttttagga attttgagaa ctaataaatg caccttaatt 900
gtcagtggtc ctttcaaaaa tgtgagttct ttaacaaaaa tgaaataaac caggtgtctg 960

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```

tgatttctaa ttaatcacccg ctggccatta cacaggtttt gttgtttggg gtggggaggg 1020
ggcttttggt cccttttgac ataatatagt caatgcacta acaattatgt atattcaaac 1080
ttgattattt taaattcgat cttcagctgt actgtaaata gggtagtgca ttgtagtctc 1140
catactctga ttacttttct gtaatattta agagttgcta aaagcataca aaatgtactg 1200
ttactaaaac agctaattat t                                     1221

```

<210> 135

<211> 1921

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (107)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1880)

<223> n equals a,t,g, or c

<400> 135

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aattgtggtt aatgttacct ttatcttggt gaggaccacn acatttagca cggtagccttg 60
tgccagaata gatactcaat atgtgaatat gtgtctacta gtagttnaat tggataaaact 120
ggcagcatcc ctggcctggt gtcatgcagt tcaattcctg ttaattctgg gagacaatga 180
tttcacaact agagggaagc agtcctaaaa gttaaatac cgataaggaa tatctggggac 240
agggtttaga tcatgactct acacagatac catgatgaga gtatattaaa gaaatttagg 300
aaagcacctg gttcctttct ccccatgcct gccttctgct ccctccccag ctggtttggg 360
ctcaaatgtt ccctggagac tagggtttat gttagggtat tgatagatta gagcagggtg 420
ttgaagagat cttctctggt cagacttgga agaatttcca aaactgaagt tagccccaag 480
acttccctag ggttgatgta ctttatgac cagatgctaa acttcttaga atgaaaatat 540
gcttcaacac ttaagtagca tacactgccc tacaacctc agagagcact tttccccaag 600
ttcttggttt tatttttgaa agtactcaca cagcacttac tatgctcaa acactcctct 660
aagcacttta cacatattag ctcatcagt cccagacag acgggatgaa gtaggtattg 720
ttactgttcc cattttacag gtgagagatt tgaagcctgg ggaggctagt aactcacccc 780
aaggtcacac ggctcataca tgggtgggact gagactcaga tgcaggcagt ctggcacctc 840
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tgaataaacc tcaattgctg gagtggggtg tagttattaa agggatgctt ttacaccttt 960
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aaacctagag tagtgcttat gctgaaatga tacttttcat tttttggttg atthtttttg 1440

```

114

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cttcccttca attttaaaact gaagcatttt aatrtgggta gaaactctac accaaatata 1500
ctaaacattt tgggtgcttag tggatttctt tttaggtaac tggacttac ttccaaagac 1560
tgaatacaag ccacactcca tcatatccct taaacttcat gaaaaacat tcaagatccc 1620
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ttccgggggt tttggggggg ggggttaggt agtgactaag gccgccagat ttgaggtggc 1920
c

```

&lt;210&gt; 136

&lt;211&gt; 1003

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1001)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 136

```

aaactcgact cactataggg aaagctggta cgctgcagg taccggtcog gaattccggg 60
tcgaccacag mgtccggggg tgagtggtag ccaacgggcc ggggcgcgcg gtccgcagaa 120
gaggcgcggg gtgcaggctt gtaaacatat aacataaaaa tggcttccaa aagagctctg 180
gtcatcctgg ctaaaggagc agaggaaatg gagacgggtc tccctgtaga tgcatgagg 240
cgagctggga ttaagggtcac cgttgcaggc ctggctggaa aagaccaggt acagtgtagc 300
cgtgatgtgg tcatttgtcc tgatgccagc cttgaagatg caaaaaaga gggaccatat 360
gatgtggtgg ttctaccagg aggtaatctg ggcgcacaga atttatctga gtctgtgct 420
gtgaaggaga tactgaagga gcaggaaaac cggaagggcc tgatagccgc catctgtgca 480
ggcctactg ctctgttggc tcatgaaata ggttttggaa gtaaagtac aacacaccct 540
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attgttgaa cctgaatgg caaggagggt gcggctcaag tgaaggctcc acttgttctt 720
aaagactaga gcagcgaact gcgacgatca cttagagaaa caggccgtta ggaatccatt 780
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tgtgtctata catttctaag ccttgtttgc agaataaaca gggcatttag caaactaaaa 960
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggggggggg ncc

```

&lt;210&gt; 137

&lt;211&gt; 878

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (50)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

<222> (840)

<223> n equals a,t,g, or c

<400> 137

```
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ggacccgggg gaggtccctg aatatcccc ttactaccag gaggaggccg gctactgagg 120
ctcccagcac gctctctccc cacatcgtct ccccatctgg gtttttgggt ttttctgtgt 180
tttcatcttt tttttttttc ttaaccggtt cagtgtgcc agtcaaccaa gggctctgtga 240
gtgtcagcgt gggatcaggc agcagagctt ttttccctt tgccttgatc cttcgcaagg 300
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ggtccctgct ggcacattca ggctgtgctg ggaagaagag acctgggctt ggaaggaacc 420
ggtccccgac ggtttctggt tgcctcgctt cttccccctt ttgtcagctg agcagtttgt 480
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aggggtgggg caaggacagt ggagagagt ctaggaaatg agtcccctgg gaaaggggac 600
cggggcgtga tgtaaatat ctccggctcc caagtgactg gatttgccca ggaccttcag 660
atcaacagac ttcagaccct cagacctgcc ccggggccag gtggagaaag tgagggccgt 720
acaaggaagt gaaattctga gttgttgggg ctaagcctga cccctctccc atgctcccc 780
cccaactca ctctggcctc agtagatttt tttttcagtt gtggttgttg cccaggcttn 840
gagtgcagtg gcgccatctt ggcttcactg gcaacttt 878
```

<210> 138

<211> 2505

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1907)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2151)

<223> n equals a,t,g, or c

<400> 138

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ccccaaatgg acatttgaat ggactaacia aaacaactgg aaagactgaa tttccgacac 120
aaaggaatga tgggatcaaa aagaaagcag tgaggagttc ttgagtcttg tagtacctat 180
tcttatttta acttgcttca tccttgatct acctgagaca ctaagaagga aattagtttt 240
ccaagagctc tttgaacctg tctaggactg tagttaaac tatttgccct atggggggtc 300
ttcacactcg aaaaactatt tccttatcac caacgaccca cccagaaagg ccaatgaggc 360
caaatgtaac aatttttaac atttaaatat aactattaaa attgcattaa ttgtgaacag 420
tgaattaaag ggttgtcttc tccaggagac agtatgtggc acttttcgta aatttcattt 480
aatatataaa aatttaaatc actcactgca acatgcattt aaaatcttcc aagaaggtag 540
aggtatcatt ttctgttttg ctttgtttta aaacagttgc ctcaagcttc tgtcttaaga 600
gtagtgactt agaatccaga tatcttttgt tttagaaaa caagcaaaac tatgttgcaa 660
gactgacagt tgtaatgttt atttgccaca gatcaaagg tcaaaaagta tatcaaattt 720
acatctactt ggggtacctt gatagattat tattgttttt cttttatctt tcccttcagg 780
aatttgaaa ctcgttgtca ctttttytaa ttttaaaaat actaaattgt aatagttttc 840
ttttgccaaa tgtgtgcgta catattcaaa gcaatgaaac tatttcaagc catacaacca 900
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caggggtggg aaccttttca caaattttaa tgtgtttgta tgtaaataga tgtttgtatg 960
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aaacacatta caaaaatttt ggtgagaatt atctgagtct attgagatgt aatgcagatc 1080
aatttttgatt tttaaaaatc aaaagcctac aataactctg actctcagca acttcctcgg 1140
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tgagtttttt gtagtgtgtc tgggtgcatg atgcaagaga gtaggaaaaa tgtttctgaa 2400
acaaaacttg acaaatattt gtaatgaaag taaattttaa gattgctata attgcgctat 2460
agaaacaatg caagtattaa acaaatata caatcaaaaa aaaaa 2505

```

<210> 139

<211> 272

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (189)

<223> n equals a,t,g, or c

<400> 139

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gtagagggcg cccctgccc caccagtcct gtagtgccc gccttcaccc cgtagctggg 60
catgggcctg gccctcgtg catttgccct tttctcgct acagctgtgg acgttgccct 120
cggggnaggt cgaatgttac cccattcccc ctgccctgcc cgccccagc ctccccaccc 180
aggccggcna cctggccatc cccattccgt tcttcttcat gtaataaatg ttttaatttc 240
tgaaaaaaaa aaaaaaaaaa accggggggg gg 272

```

<210> 140



<211> 1592  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1568)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1578)  
<223> n equals a,t,g, or c

<400> 140  
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gaaattcaaa tactcaatag ctctcgtaat tctagggaat cttgagaaga ggcctggatt 180  
aaggattcaa acgtggggcc tcagatggcc ccgcacctgc cgcttgacac tgcagccccg 240  
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cgcgcccttc tatggcattg ctggttctac caacgtgaca ggtgatcaag ttaagaagct 480  
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tctcgtgtca gaagaagata aacacgccat catagtggaa ccggagaaaa ggggtaaata 600  
tgtggtctgt ttgatcccc ttgatggatc ttccaacatc gattgccttg tgtccgttgg 660  
aaccattttt ggcattctata gaaagaaatc aactgatgag ctttctgaga aggatgctct 720  
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ggtccttgcc atggactgtg ggggtcaactg cttcatgctg gacccggcca tcggggagtt 840  
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<213> Homo sapiens

<400> 141  
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<210> 142

<211> 3203

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (910)

<223> n equals a,t,g, or c

<400> 142

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<210> 143

<211> 3474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1909)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1929)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2862)

<223> n equals a,t,g, or c

<220>

<221> misc feature

&lt;222&gt; (3399)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 143

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<210> 144

<211> 3283

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1884)

<223> n equals a,t,g, or c

<400> 144

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<211> 1818

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1798)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1812)

<223> n equals a,t,g, or c

<400> 145

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tgtttctggt gctgctactt taaaacacag ctcaacagaa taactaactt gctcaaatat 1740
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tgagtcctgg cngaacac                                     1818

```

<210> 146

<211> 514

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (514)

<223> n equals a,t,g, or c

<400> 146

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gtacgcactt ctggggccca gtagccaact ggggtcttcc cattgctgcc atcaatgata 180
tgaaaaagtc tccagagatt atcagtgggc ggatgacatt tggatgacta aaacggcatc 240
tgcataacaa tggaaaagga agaacaaggt cttgaaggga cagcattgcc agctgctgct 300
gagtcacaga ttctattata aatagcctcc ctaaggaaaa tacactgaat gctattttta 360
ctaaccattc tatttttata gaaatagctg agagtttcta aaccaactct ctgctgcctt 420
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taawaatttc tgatgatggn ttatctgcag cacn 514

```

<210> 147

<211> 2535

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2531)

<223> n equals a,t,g, or c

<400> 147

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ggcagatgag agtgtagtca agggcctggg cacaggaggg agagctgcag agtgtcctgc 180
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gtcactgggg aaagcctgag tttgcaacca gttgtagggt ttctgtgtg tttttttttt 360
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gtgtcaaaag tgagatgctg agagtagggtg ataattgtata ttttacagag tgggggttgg 480
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ggtttccttg ggatcaattt cattaccgtg tacctttccc attgtggtca tgccatttgg 780
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```



```
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aaaaaaaaaa naaaa 2535
```

<210> 148

<211> 2315

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2279)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2297)

<223> n equals a,t,g, or c

<400> 148

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gtggnactgt cttttggatt caaagtgggc aaaggccaag aaaggagagg aagctttatt 180
tacaaccagg gagtctgtgg ttgactactg caacaggctt ttaaagaagc agttttttca 240
ccgagcccta aaagtaatga aaatgaaata tgataaagac ataaagaaag aaaaagataa 300
aggaaaagct gaaagtggaa aagaagaaga taaaagagc aagaagaaa atataaagga 360
tgagaagaca aaaaagaaa aagagaaaaa aaaagatggt gaaaaggaag aatccaaaaa 420
ggaggaaact ccaggaaactc ctaaaagaa ggaaactaag aaaaaattca aacttgagcc 480
acatgatgat caggtttttc tggatggaaa tgaggtgtat gtatggatct atgaccaggt 540
tcactttaaa acattttgtca tgggattaat tcttgtgatt gcagtaatag cggccacctt 600
cttccccctt tggccagcag aaatgagagt aggtgtttat tacctcagtg tgggtgcagg 660
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cttaaagaaa gatgagaagt ctgaaaccaa aaagcaacag aagtcgaca gtgaggaaaa 900
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```

```
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ttaaatcttt acattcagaa atgagatact gtattatcag accaggaggg attgctgtga 2220
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aaaaaaaaa aagggngngc cgccctaggg ggccc 2315
```

<210> 149

<211> 2604

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2566)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2604)

<223> n equals a,t,g, or c

<400> 149

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gcaatcaagg atggtatttn ctctgtacag ccgagattcg ggccctccac cctctacagt 120
gagtgaagcc gaatttgaag atatcatgaa gcgaaacaga gcaatttcca gcagtcccat 180
ttccaaagca gtatctggag ccagtgcagg ggattacagt gacgcaattg agacgtgct 240
cacagccatt gcggttatca aacagtcccg gggtgccaat gatgarcgtt gccgtgtcct 300
catctcctct cttaaggact gtcttcatgg gcattgaagc caagtcctac agtgtgggtg 360
```

```

ccagtgggag ctcttcccgg raaagacatc gytcccggga aagggtcacct agccgggtccc 420
gggagagcag caggaggcac cgggatctgc ttcataatga agatcggcac gatgattatt 480
tccaagaaag gaaccgggag catgagagac accgggagatg agaaccgggac cggcaccact 540
gagaaaaggag tctgggttga agcaaatgtt tttttaatgg acttgcatct cctcaccttg 600
atcaggacta aaggacggag gccgcccac ccccttccct ttcctccaaa cccctaactc 660
cctccagaca ccagggaat accctctgcc ccacaggatt gaagactgct tggcagtcct 720
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tcggtgattt gtttgtctt ctgatagggt gaaaattgtg taataaactt gatgacgctg 2520
tcaatctttt atactgcatt gtatttttt ctttttgtaa caaatntttt ttaataataa 2580
tggggtgtga gctgttaaaa aan 2604

```

<210> 150

<211> 685

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<220>

<221> misc feature

&lt;222&gt; (641)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (682)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 150

```

aattcggcac gagcggcaac ctgggttcgc gaagccggag agctggagct ttgaagccac 60
cccggcctaaa ggatgctgag tccggagcgc cttagccctac cggactacga gtatctggct 120
cagcgacatg tcctcaccta catggaggat gcagtgtgcc agctgctaga aaacagggaa 180
gatattagcc aatatggaat tgccagggtc ttcactgaat attttaacag tgtatgccag 240
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caytcagaaa gcagccagga ttgtgctcat ggacgatgcc atggactgct tgatgtcttt 480
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cctcgtccag tgggcagcac cgccacgacc tgccctgggc ngggcccggc acgcttgaag 660
gcgtggaggc ctogttttct ancag 685

```

&lt;210&gt; 151

&lt;211&gt; 1103

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1098)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 151

```

agcgcgaggt acggctagag cgtcatttcc ggctcgaatg cccggcagcc gtggcggcta 60
gagcgttcct cccagctcg aatgcccggc ggccgaggcg gctagagcgt cgcctcctcc 120
cggggaaccg cgtgtgacct tccagcccgc ggaccgatgc tgccggcggc cgctcgcccc 180
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catttcaccg tccgcctgac cgaggcgaac cgtggacaaa gtgaagctga tcaaggaaat 600
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```

ccaagggccc aagtttange tgc

1103

&lt;210&gt; 152

&lt;211&gt; 1117

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1069)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 152

```

ggcccttccc gcctctgggg aaggaaactt ccgcttcgga ccgagggcag taggctctcg 60
gctcctgggc cactgctgc tcagcccagt gccctcacag gacaccagct tcccaggagg 120
cgtctgacac agtatgatga tgaagatccc atggggcagc atcccagtac tgatgttgct 180
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cctaaagggt gcccaggggc ccctggagcc ccaggcccca aaggtgaatc gggagactac 480
aaggccaccc agaaaatcgc cttctctgcc acaagaacca tcaacgtccc cctgcgcgcg 540
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&lt;210&gt; 153

&lt;211&gt; 2038

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1490)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1508)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1979)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1992)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2010)

<223> n equals a,t,g, or c

<400> 153

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gaaatgtgtt ggccacgagg aagacgtgga gggagccctg gccggcttga agacagtgtc 180
ctcatacagc ctgcagcggc agtcgctcct ggacatgtct ctggtgaagt tgcagctttg 240
ccacatgctt gtggagccca atctgtgccg ctacgtcctc attgcccaaca cggtcggcca 300
gatccaagag gagatgacgc aggatgggac gtggcgacac gtggcacccc aggctgcaga 360
gcgggcgccg ytcgaccgct tggctccac ggagatcctg tgccgtgcag cgtgggggca 420
agagggggca catctgtctc ctggcttggg ggacggccac acacagggtc cagtcttctga 480
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<210> 154

<211> 645

<212> DNA

<213> Homo sapiens

<400> 154

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ccccacggc tctgccacct gtagtgctcg atggttcctt catcagcttc agrccaagtt 180
cgaagtcact atgtagactg gagaatgtgg cgcgatgtga agagacgaaa aatggcctat 240
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attcttcagg atgtggctga tgaagaaatt gctgccctcc cccgggatag ctgtcctgtt 360
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gcgacatggg aaatgagctc cagaacctat tgagcttgca ggggaagccaa gcttgagtt 540
ccagcaagca aagatttttt ttaatagacc aaaccctaata ctctacaggg gccagtaga 600
gttgtttggc ctacctgatg ctatctctaa actactttta aaatg 645
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<210> 155

<211> 1596

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1542)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1559)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1587)

<223> n equals a,t,g, or c

<400> 155

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aatgaaacta ggggaatttc aggggacaga gatgggattt gttgtatgat aaactgtatg 300
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cctgtactac tgattattaa gcaggacaga ctgagctttc tgttgcaaat accttgagg 540
agaaagtaat ttctaaatat acagagaggt aacttgacta tatatgttgc atcctgtgcc 600
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tcccttcata ttaatatattg ataaagattt taatttatgt aaaacttcta aagcagaatc 660
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aattgggcga tggggggaaa caaaggnccc ccccg 1596

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&lt;210&gt; 156

&lt;211&gt; 1654

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 156

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cagatcgggc tggaggactt catcttcgcc cagtggaagg ggcagcgcaa ggaggtggag 360
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tctccttcca ggcccatccc tggccagag caggaggag ggagggacga tggcggtgg 1560
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```



aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaag

1654

&lt;210&gt; 157

&lt;211&gt; 1815

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1808)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 157

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tcgacccacg cgtccggggc ttccggcggc gctcaggtcg cggggcgccct aggcctgggt 60
tgtcctttgc atctgcacgt gtccgcagtc gttccgcga tgctgcctct gctgcgctgc 120
gtgccccgtg tgctgggctc ctccgtcgcc gccctccgcg ctgccgcgcc cgctcgccct 180
ttccggcagc tcctgcagcc ggcaccccg gctgtcaccc ggcccttcg gctgtcagc 240
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ggttgggagc tggaactgaa tgggacagaa gcgaaattag tgcggaaagt tgccggggaa 480
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tgtatgcnc cgggt 1815
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&lt;210&gt; 158

&lt;211&gt; 1397

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> misc feature  
<222> (1330)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1353)  
<223> n equals a,t,g, or c

<400> 158  
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cctttgccgc tggctcgggat tgggatgtcg aagaacacag tgctcgtcggc ccgcttccgg 180  
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ggatttgaga gcccgtctga caatagcagt gctatgttac tgcaatggca tgaaaaggca 540  
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agtcttgctt tatacaaatg tatccataaa atatcagagc ttgttggggc atgaacatca 1320  
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<210> 159  
<211> 956  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (930)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (941)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (945)

<223> n equals a,t,g, or c

<400> 159

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tttgtttttg cttgcctcct gattatctgt actgtgggtt taagtatgct actttctctc 180
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actttcttta gaaatataat agctgcctta gacattatga ggtatacaac tagtatttaa 480
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<210> 160

<211> 2265

<212> DNA

<213> Homo sapiens

<400> 160

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cagcctcctg ggtgggtcgt cttgacccaa actcctgtgt tgttacattt tgagagggtt 2220
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```

<210> 161

<211> 998

<212> DNA

<213> Homo sapiens

<400> 161

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caatgcggct gattggcaca atttaactct gaagtgggaa accctcaatg atgcagggtt 180
taccactgca aataatattg ccaacttgaa aatcagttta ttgaataaag acaagataga 240
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gaaaaaaaaa aaaaaaaaaa cttcgggggg ggccccgt 998

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<210> 162

<211> 1750

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (704)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1724)

<223> n equals a,t,g, or c

<400> 162

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agtgatttta atattgatca atgagttctg gtggtaccaa ctactacaaa gtttctcatc 180
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<210> 163

<211> 3096

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3071)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3072)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3078)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3085)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3096)  
<223> n equals a,t,g, or c

<400> 163  
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aaaacggccg ggcggcggtg gctgtagggt gtgcggctgc agcggctctt ccctgggcgg 180  
acgatggaca gccagggcag gaaggtggtg gtgtgcgaca acggcaccgg gtttgtgaag 240  
tgtggatatg caggctctaa ctttccagaa cacatcttcc cagctttggt tggaagacct 300  
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cgaaattggg atgacatgaa acacctgtgg gactacacat ttggaccaga gaaacttaat 480  
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gtgttttttg kctgtttacc tcaatttgaa cagataagtt tgcctgcagc ctggacatgc 3060
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<210> 164

<211> 1216

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (203)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1200)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1211)

<223> n equals a,t,g, or c

<400> 164

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ttgctgcgat accatggaag gaggcggggg aagcggcaac aaaaccacag ggggattggc 180
cggctttttc ggagccggcg gancaggtta ctcgcacgcg gatttggtcg gcgtcccgc 240
aactggtatg aacctctgt ctccttattt aaatgtggat ccacgatacc tcgtgcagga 300
tacagattgag tttattttac ctaccggagc taataaaaacc cggggcagat ttgagctggc 360
cttctttacg attggaggat gttgcatgac aggggctgcg tttggtgcaa tgaatggct 420
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tcggctagga ttgaaggaaa cccagaacat ggcttggtcc aaaccaagaa atgtacagat 480
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gctctatagt gcatttggtg tcatcattga gaaaacacga ggtgcagaag atgaccttaa 600
cacagtagca gctggaacca tgacaggcat gttgtataaa tgtacagggt gtcttcgagg 660
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tactatatca ccaagtccat tcatttaatg atccaaaact gtaatgttgc actgtattcc 1140
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ggggtccaag ntttgg 1216

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<210> 165

<211> 780

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (696)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (726)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (739)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (759)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (773)

<223> n equals a,t,g, or c

<400> 165

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ttatttattt ttgagactcc gtttcaaaaa aaaaacaaaa aaacaaaaac caaaaaataa 120
aaaaacacat cagcttgaca ttttgaggc attcccagac tcagggttag tcagcagatt 180
agcatttaaa agaaagtctt gtccctacag attccctgac ctcagctacc catgaagggt 240
gggaagagga gtccttagca agaagtccag gaagttgaca acctcctcar acctgatagg 300

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[4]

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acactcctct ctccaccctg cctcctgact gatttaatct caggggtgtg aggacctctg 360
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tgaaacagat cctagaggat tcccaagtga taggataaat agagaggtac tgagacttcc 480
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tgcaccaaag ytcattgtgst caattctcag gaaaggcytc actcmgttaa aaaattttgt 660
atcwtgaaag ggtaaatgaa ttaattagtg aatctnggtt ctaagcccat ggcttactag 720
aaatantata gttaatcana aaaaaaaaaa aaaacttgng ggggggcccg ggncccaatt 780

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&lt;210&gt; 166

&lt;211&gt; 3380

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (9)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (14)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (17)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (23)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3373)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3379)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 166

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gccccagagg ctygttagca gtggcacaag atcttacaga ggatgaagaa acagtagaag 300
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tggtagaaga taaagaggaa gaagatgtgt ctggtgaacc tgaagcttca ccgagtgcag 420
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<210> 167  
<211> 1645  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (7)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1319)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1640)  
<223> n equals a,t,g, or c

<400> 167  
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&lt;210&gt; 170

&lt;211&gt; 2916

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 170

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&lt;210&gt; 171

&lt;211&gt; 2529

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 171

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<210> 172

<211> 811

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (805)

<223> n equals a,t,g, or c

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811

&lt;210&gt; 173

&lt;211&gt; 2221

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 173

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<211> 757

<212> DNA

<213> Homo sapiens

<400> 174

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<213> Homo sapiens

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<220>

<221> misc feature

<222> (2211)

<223> n equals a,t,g, or c

&lt;400&gt; 175

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a
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&lt;210&gt; 176

&lt;211&gt; 1513

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (773)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

<221> misc feature  
<222> (791)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (965)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<210> 177  
<211> 4083  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (13)  
<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (48)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (157)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 177

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<210> 178

<211> 2732

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1653)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2664)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2699)

<223> n equals a,t,g, or c

&lt;400&gt; 178

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&lt;210&gt; 179

&lt;211&gt; 872

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 179

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&lt;210&gt; 180

&lt;211&gt; 2251

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 180

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<210> 181

<211> 2789

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2579)

<223> n equals a,t,g, or c

<400> 181

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<211> 3517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

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&lt;211&gt; 858

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
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 <222> (850)  
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 <211> 2387  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (2373)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (2378)  
 <223> n equals a,t,g, or c

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 acacattcct catgaatggt ctcatccaag gtgtaaaggg cctgctctct tttttgagtg 180

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&lt;210&gt; 185

&lt;211&gt; 2885

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 185

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aaaaa
2885

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&lt;210&gt; 186

&lt;211&gt; 2178

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2117)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2132)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2158)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2168)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2174)

<223> n equals a,t,g, or c

<400> 186

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<210> 187

<211> 1254

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1027)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1156)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1195)

<223> n equals a,t,g, or c

<400> 187

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acagtcgacc tggagggtat ggatatggat atggacgttc cagagactat aatggcagaa 540
accaggggtg ttatgaccgc tactcaggag gaaattacag agacaattat gacaactgaa 600

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atcaaccttt tgttttttaa ttgacctgcc aaggtagctg aagacctttt agacagttcc 780
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<210> 188

<211> 1479

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1464)

<223> n equals a,t,g, or c

<400> 188

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tctttgttta tgttcagggt tagtttacia acccatttaa gtatggaatg atttatatgg 180
ggtcagggtg tccacaaaat agacctatga gaccacaaaat gacctaggct atttagacga 240
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gtatgacca tagaaacacc ttatagtttg ctttgacact catttttgaa aaataatctg 360
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gattgtggtg tccgagtgac cggcacactg tctgacacac agtcagtggtg cactatattg 480
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<210> 189

<211> 3411



<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (3097)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3246)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3260)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3358)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3384)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3410)  
<223> n equals a,t,g, or c

<400> 189  
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ccgggcattt gggtacgtgt gtggaggaga aggccagcat cagttttttg ccataaaaaac 180  
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<210> 190

<211> 2617

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (18)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (42)  
<223> n equals a,t,g, or c

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cccgcggagc ccggcttccc ggcccagttt ccagcgcccc gaatccttcc actgtctgtc 180  
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<210> 191

<211> 3144

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3144)

<223> n equals a,t,g, or c

<400> 191

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<210> 192

<211> 2570

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2561)

<223> n equals a,t,g, or c

<400> 192

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&lt;210&gt; 193

&lt;211&gt; 1524

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 193

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<210> 194

<211> 1678

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (621)

<223> n equals a,t,g, or c

<400> 194

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<210> 195

<211> 2824

<212> DNA

<213> Homo sapiens

<400> 195

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<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

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<221> misc feature

<222> (4254)

<223> n equals a,t,g, or c

<400> 196

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<210> 197

<211> 3117

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<400> 197

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gcttttgtga gataatcgaa gaacttttct cccccgttg tttgttgag tgggtgccagg 240  
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cccattctcaa atcattctgt taaccacat tccaacaggt cgaggagagc ttaaaccact 420  
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<210> 198

<211> 2483

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<400> 198

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tatgttaccg ccacctaata acaaagagga ttttgagaag actctgtcgc aagccatagt 240
caaagtgggt atcccaacag aaaggaattt gctcgccctg atacatcgaa tgatagagtt 300
tgttgtacgt gaagggccaa tgtttgaagc tatgrttatg aacagagaaa tcaacaatcc 360
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<210> 199

<211> 1238

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1209)

<223> n equals a,t,g, or c

<400> 199

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tggactccct ggtggtgtgc gaggtagacc cagagctaac agaaaagctg aggaaattcc 540
kcttccgaaa agagacagac aatgcagcca tcataatgaa ggtggacaaa gaccggcaga 600

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<210> 200

<211> 640

<212> DNA

<213> Homo sapiens

<400> 200

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gccactgttt gtggaagata taatgacaat ggtgctgtgt aaacccaaac ttttaccctt 180
aaaatctctg actctggaaa aactagagaa aatgcatcaa gcagcacaga atacaattcg 240
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agttaacta tgaaccmagt tttatggggg ttaagtcag tttttagaat tgcaaattaa 540
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<210> 201

<211> 1439

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1439)

<223> n equals a,t,g, or c

<400> 201

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ttgcagatc cagtttattg ggaccatctc gagttctgtg atggattcag aaaactttta 180
gaccatttac aattggataa agttcatctt tttggcgctt ctttgggagg ctttttggcc 240
cagaaatttg ctgaatacac tcacaaatct cctagagtc attccctaatt cctctgcaat 300
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<210> 202

<211> 1247

<212> DNA

<213> Homo sapiens

<400> 202

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<210> 203

<211> 746

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (626)

<223> n equals a,t,g, or c

<400> 203

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<210> 204

<211> 2170

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2166)

<223> n equals a,t,g, or c



&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2168)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 204

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&lt;210&gt; 205

&lt;211&gt; 2620

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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<222> (563)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1838)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2596)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2609)  
<223> n equals a,t,g, or c

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<210> 206

<211> 1014

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1005)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1007)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1009)

<223> n equals a,t,g, or c

<400> 206

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<210> 207

<211> 1367

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (649)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1363)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1364)

<223> n equals a,t,g, or c

<400> 207

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<210> 208

<211> 1498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1436)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1460)

<223> n equals a,t,g, or c

<400> 208

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<210> 209

<211> 2365

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<400> 209

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<210> 210

<211> 1010

<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (1007)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1009)  
<223> n equals a,t,g, or c

<400> 210  
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<210> 211  
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<212> DNA  
<213> Homo sapiens

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<222> (1513)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1522)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1529)  
<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1547)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 211

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gagcaacagc gggctatggc gccccggcgc ttgcaccaac atcaccatgg gtgtcgtctg 180
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&lt;210&gt; 212

&lt;211&gt; 1529

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 212

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```



```

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aactaaaama awaaaaaaaa aaaaaaaaaa 1529

```

&lt;210&gt; 213

&lt;211&gt; 2575

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 213

```

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&lt;210&gt; 214

&lt;211&gt; 2040

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 214

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actgtggcta agtgtgggga ccagacagga ctctgtgaga catccagggt ctgaagcctt 120
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aactaagcta tgtgaaataa gagaagctac tttgttttta aatgatgttg aatatttgct 1980
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<210> 215
<211> 324
<212> DNA
<213> Homo sapiens

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```

<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c

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tttagaaaaga ggatatgtta gcagggcgca gtggctcaca cctgtaatcc cagcactttg 180
ggaggctgag gcagggtggat tgcctgaggt caggagttag agaccagcct ggacaacatg 240
gtgaaacccg tgtctgctaa aagtacanaa attagcaggg ggtngtggca ggcacctgta 300
aatnccagct acttcaggga ggct 324

```

```

<210> 216
<211> 1475
<212> DNA
<213> Homo sapiens

```

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<400> 216
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aacaactgcc ctccacacaa tagtctgtgt ggctacaagg agccccctgct gtcctgcctc 180
atcatcatgt gtgaaccaat ccagcaccca tcccacatgg acatccccct ggatagcaag 240
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gcgctagact ccgagaacat gaccaagagt caccagaact tgtgcaccaa gggtcaggta 420
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&lt;210&gt; 217

&lt;211&gt; 1387

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 217

```

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aaaaaaaaa 1387

```

&lt;210&gt; 218

&lt;211&gt; 1833

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 218

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<210> 219

<211> 2592

<212> DNA

<213> Homo sapiens

<400> 219

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<213> Homo sapiens

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<220>

<221> misc feature

<222> (2403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2404)

<223> n equals a,t,g, or c

&lt;400&gt; 220

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&lt;210&gt; 221

&lt;211&gt; 2670

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (38)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 221

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&lt;210&gt; 222



<211> 1756  
<212> DNA  
<213> Homo sapiens

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<222> (13)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (26)  
<223> n equals a,t,g, or c

<220>  
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<222> (33)  
<223> n equals a,t,g, or c

<220>  
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<222> (37)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<220>  
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<222> (1742)  
<223> n equals a,t,g, or c

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&lt;210&gt; 223

&lt;211&gt; 2379

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 223

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&lt;210&gt; 224

&lt;211&gt; 2511

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 224

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gcggaggggg tggaggtttg tctccgctgt ttcactctta tggctgtcag aggtgggcgg 60
ctttgaccga gaggtgctg gagctcgtgt ttggacgca tgtttcgtct gaactcactt 120
tctgcttttg cagaactggc tgtgggttct cgatggtacc atggaggatc acagcccatc 180
cagatccggc gaagactaat gatggtggct ttcctgggag catctgcagt aactgcaagt 240
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agtgcacatg gtgataaagg gaagaataaa gatgaagggg atgtttgtaa ccatgagaaa 360
aagactgcag atcttgcccc tcaccacagaa gagaaaaaga agaaacgttc tggattcaga 420
gacagaaaag tgatggaata tgagaatagg attcagacct actccacgcc agacaaaatc 480
ttccgatatt ttgccacctt gaaagtcac agtgagcctg gtgaagcaga agtgtttatg 540
acaccagaag attttgtgag atccataaca ccaatgaaa aacaaccaga acacttgggt 600
ctggatcaat atataataaa acgctttgat ggaaagaaaa tttcccagga acgagaaaaa 660
tttgctgatg aaggcagtat attttacacc cttggagaat gtgggctcat atccttttca 720
gactacattt tccctacaac tgttctttcc actcctcaga gaaattttga aattgccttc 780
aagatgtttg atttgaatgg agatggagaa gtatgatagg aagaatttga acaggttcag 840
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aacaccctca agtctggctt gtgttcagcc ctcacaacct acttttttgg agctgatctg 960
aagggaaaag tgacaatcaa aaacttcctc gaatttcagc gtaaactgca gcatgatgtt 1020
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gcctgggact tcgctttacc caaacagtaa cccacactg caagagggga cccctccacc 1560
cccagtaccc tggacccctt ccgcagagtc tcggcagagc cctttgtgct gctgcttctg 1620
gaagtagtcy cccttcctcc cgggatgacc tcaggactct gtcggtttcc cctctttacc 1680
cttccccgtc cccgtgttct gctgggctct gattctgccc aatgagatc cccataggtt 1740

```

```

ctcaaaaaca tgaacaagtc tgtaaagctc agacatttgt cagcctcaac agcaccaccc 1800
attcaagcat cctgtggata aagaattcag ggaaccatcc acacacctgc caaccctggg 1860
aagcatccag ttctcaaadc gtttttgcta tggatttata ctaacaagaa cattccttga 1920
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agtctgtgat gataaacaat gatgaggatg acctaggcac cctacgctag tgtgagaagc 2040
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agaggaggag ggaggagaga gagggagaag aagaaaaaaa gggctcttaa ttaggcgggc 2460
ccaagtthtt cccttagggg ggggtaatth tacttggaat ggccgcccgt t 2511

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&lt;210&gt; 225

&lt;211&gt; 601

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 225

```

gggtggcgtcg gagccgagcc ggactggtca ggtcagaggc acgcaggggc cgtcccacgg 60
gccagccccg ccgtggccgt ggccgtggct ggcccgtggg gcgaggacgg gttcttgcca 120
gggcgaggag tgcgccagcc cgcagctcag cccctctctt ctccgcagga tgatcacgga 180
cgtgcagctc gccatcttcg ccaacatgct gggcgtgtcg ctcttcttgc ttgtcgttct 240
ctatcactac gtggccgtca acaatcccaa gaagcaggaa tgaaagtggc gctttctccg 300
ccccagggtt ccaggacata gtctgaggca agatggaggg tatgaggggc cttcacactt 360
cacttcatcc cttctacca tcacaacata caaagcaact acacctggat ttttccaaac 420
aacttttatt tcctcagagt cttccttaat cctatggaac aagaagctgc cactgaatag 480
ggcccagtat aggggcttgc ttttctactc cctcccccca atataaaaa atagactttt 540
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaactcg 600
a 601

```

&lt;210&gt; 226

&lt;211&gt; 507

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (484)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 226

```

aattcggcac gagccggcgc gaaacgagcg tagttccttg tcgtgtggcc tcagtccttc 60
gccgtccctc gccgtccttc gccatcgcac gccaccgcac cccatctctc gaaatctgca 120
gacatcttga tttttccac gctgtctgtc aggtctccgc cgccactcga cgccagggcg 180
ccgggccttg tgggctgtgc tgcacctcgg acggcttcgc accagccagc gccctctctc 240
tcctgcagca ctctgatctg caccctctga ggggcttcca ctgtccgcgg ggtgagaatg 300
ccctggggag tgtaacatga ctgccgcccc atgtgtgtga gaggcgtcct ctgggagagc 360
atggatcctg aggtcccagg attgtcagct gacctctgtc ctgtgtgccc agtggcccca 420
ggtgacgtgt cttcaagaag aggtctgakt gcgggtgcttg taaggkctca gccttagatc 480

```

caanggaaca gttccaaagg aaagttc

507

&lt;210&gt; 227

&lt;211&gt; 1041

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 227

```
ggcacgagcc accaccactg ccacccaagt agggagtgag gagcaccagg agcacaggat 60
gctacttctg ccaaccctac aaaaatactc tgcacaaatc ttcaaaaaac atccttgtcc 120
cactgctgca cctgctggaca gatttcatgt cctggctctc ttctaaacct ggaggtgggg 180
catgaacagg gtggagtcac aggggaaaga aaatgagccc caggacacct gggttcacac 240
ccagtcccca gcgatgtctc caccaccgct gctcaacccc tgctgctgct gctgcctctg 300
ctgaatgtgg accttccggg gccacactga tccgcatccc tcttcatcga gtccaacctg 360
gacgcaggat cctgaaccta ctgaggggat ggagagaacc agcagaactc cccaagttgg 420
gggccccatc ccctgaggac aagcccatct tcgtacctct ctcgaactac aagggatggg 480
tacaccaccg atttgatccc aaagcctcta ctcttccag ccaatgggac caatttgcca 540
ttcaatatgg aactgggcgg gtacatggaa tcctgagcga ggacaagctg actattgggtg 600
gaatcaaggg tgcatacgtg attttcgggg aggcctctct ggagcccagc ctggctcttcg 660
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ttcggccccc gatggatgta ctggtggagc aggggctatt ggataagcct gtcttctcct 780
tttacctcaa cagggacctt gaagagcctg atggaggaga gctggctcctg gggggctcgg 840
acccggcaca ctacatccca cccctcacct tcgtgccagt caccggtccct gcctactggc 900
agatccacat ggagcgtgtg aaggtgggcc cagggtctgac tctctgtgcc aagggctgtg 960
ctgccatcct ggatacgggc acgtccctca tcacaggacc cactgaggag atccggggcc 1020
tgcatacagc cattggggga a 1041
```

&lt;210&gt; 228

&lt;211&gt; 1658

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 228

```
cggggatcag cgcacagagt tcttgggagc agcgccgttg gggccccctg tytctccacc 60
ccatgtctcc accttcaaga caaggtctgc aaagggtttt ggggctcgag gccagacgt 120
gctgagtccg gccatggtag ccctctccaa caagctgaag ctgaagcgac actggtagta 180
tgaagagcaa gccttccagg acctgagcgg gggggaccca cctggtggca gcacctcaca 240
tttgatgtgg aaacggatga agaacctcag ggggtgggagc tgccctttga tgccggacaa 300
gccactgagc gcaaatgtac ccaatgataa gttcacccaa aaccccatga ggggcctggg 360
ccatccccctg agacatctgc cgctgccaca gcctccatct gccatcagtc ccggggagaa 420
cagcaagagc aggttcccc cagagtgtca cgccaccag taccaggact acagcctgtc 480
gtcagcccac aaggtgtcag gcatggcaag ccggctgtct gggccctcat ttgagtccca 540
cctgctgccc gaactgacca gatatgactg tgaggatgaac gtgcccgtgc tgggaagctc 600
cacgctcctg caaggagggg acctcctcag agccctggac caggccacct gagccaggcc 660
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cctccccacc ttcaatgact tctaatttat attatccata ggtttctctc cctccttctc 960
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```

```
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actctttgct ctaatttttg aaaaaagaa atgtgaaggg tcaactccaa cgtatgtggt 1260
tatctgtgaa agttgcacag cgtggctttt cctaaactgg tgtttttccc ccgcatgttg 1320
tggatttttt attattattc aaaaacataa ctgagttttt taaaagagga gaaaatttat 1380
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ggaaatggaa tcctgctcac aaaatcactt taagatcttt tcgaagctgt taatttttct 1500
tagtggtgtg gacactgcag acttgtccag tgctcccacg gcctgtacgg acactgtgga 1560
aggcctccct ctgtcggctt tttgccayck gtgatatgcc ataggtgtga caatccgagc 1620
agtgggagtc attcagcsgg grcacttgcg cgcgtaat 1658
```

<210> 229

<211> 1616

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<400> 229

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gcgggagtggt gcgcccgcgc agagtgggag gcgaaggggg caggccaggg agaggcgag 120
gagcctttgc agccacgcgc gcgccttccc tgtcttggtg gcttcgcgag gtagagcggg 180
cgcgcgccag cgcggggatt actttgctgc tagtttcggt tcgcggcagc ggcgggtgta 240
gtctcggcgg cagcgccgga gacactagca ctatgtcggg ggagcagttc ggcggggacg 300
ggcgcgccgc agcggaacg gcggcggtag gcggctcggc gggcgagcag gagggagcca 360
tgggtggcggc gacacagggg gcagcgccgc cgcggggaag cggagccggg accgggggcg 420
gaaccgcgctc tggaggcacc gaaggggcag cgccgagtcg gagggggcga agattgacgc 480
cagtaagaac gaggaggatg aaggccattc aaactcctcc ccacgacact ctgaagcagc 540
gacggcacag cgggaagaat ggaaaatggt tataggaggc cttagctggg aactacaaa 600
gaaagatctg aaggactact tttccaaatt tgggtgaagt gtagactgca ctctgaagtt 660
agatcctatc acagggcgat caaggggttt tggctttgtg ctatttaaag aatcggagag 720
tgtagataag gtcattggatc aaaaagaaca taaattgaat gggaagggtg ttgatcctaa 780
aaggggccaaa gccatgaaaa caaaagagcc ggttaaaaaa atttttgttg gtggcctttc 840
tccagataca cctgaagaga aaataaggga gtactttggt ggttttggtg aggtggaatc 900
catagagctc cccatggaca acaagaccaa taagaggcgt gggttctgct ttattacctt 960
taagggaagaa gaaccagtga agaagataat ggaaaagaaa taccacaatg ttggtccttag 1020
taaattgtgaa ataaaagtag ccatgtcgaa ggaacaatat cagcaacagc aacagtgggg 1080
atctagagga ggatttgacg gaagagctcg tgggaagagg ggtgaccagc agagtgggta 1140
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atgtgcaact tatccccaac aggtggtgaa gcagtatttt ccaatttgaa gattcatttg 1260
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gaatggaagt atgacgttgg gtccctctga agtttaattc tgagttctca ttaaaagaaa 1380
tttgctttca ttgttttatt tcttaattgc tatgcttcag aatcaatttg tgttttatgc 1440
cctttccccc agtattgtag agcaagtctt gtgttaaaag ccagtggtga cagtgtcatg 1500
atgtagtagt gtcttactgg ttttttaata aatccttttg tataaaaaaa aaaaaaaaaa 1560
aaaactgggg gggggggccc gtccccattg gccctwtggg gggcggtttt aaaaat 1616
```

<210> 230

<211> 1928  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (45)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1749)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1804)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1854)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1879)  
<223> n equals a,t,g, or c

<400> 230  
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ggagatatgg gatgggggtg atcggaataa aaattttttt aaatccctac caaaatatca 120  
gctggccttt tttaaaaaat caaataccaa aatctaaata gactccaaca gaaaattcac 180  
catctcctct gaccttttct tcccatctca tgctgtgaac tgtottctgt tgactttatc 240  
gctacctttc ttcattctgt tattcaacca tgatctctcc gtttcatttt ataagcgttt 300  
tattaatttc atttatgtat ttatttttga ctaggtaatg catgtccatg gacacaaaaw 360  
tcacaagggt tgtaaatgag aaaagacgtg aggttccttt tgttctttac ctgtggcctc 420  
cctgccctac acgggggactc tagggtggaa tgtagcaaag cccatccacc agccatgtac 480  
tcccccccaa ccgggccagg ctggagcgac cgtgtctggg gagccgagcc ccgcttctcg 540  
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gcctaaactg atgtaccagg agctgaaggt gcctgcagag gagcccgcca atgagctgcc 840  
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cggcgacttg catctctttg ggcccaacca gcgcccagcc ccctgctatg acccttgcca 1020  
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gcctccttct actggaccct caccaacaat gacacccaca cgcaggagcc ctctgccag 1200  
cagggtgagg aggtcctccg gcagctgcag accctggcac caaaggcgct gaacgtccgc 1260

```

atcgctgtga gcaagcccag cgggccccag ccacaggcgg acctgcaggc tctgctgcag 1320
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aagttctggg tgggtggacca gaccacttc tacctgggca gtgccaacat ggactggcgt 1440
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gacctgacca agatctttga ggctactgg ttcttggggc aggcaggcag ctccatccca 1560
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ggcgcactc cagacctgaa ggctctactc aacgtggtgg gacaatgccc ggagtttcat 1740
ytacgtcgn tttcatgaac tacctgcca mtytgagtt yttcccaacc tcamaggttc 1800
tggncctgcc attgacgatg ggtgcggcgg ggcaactacg agcgtggcgt caangtgcgc 1860
cttgctcata agctgcttng gggacactcc ggaagccaat ccatgcgggc ccttcctggg 1920
tctcctct                                     1928

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<210> 231

<211> 1235

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1235)

<223> n equals a,t,g, or c

<400> 231

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aggggagtg gccaagccg ggtgcaaaga acggggaagg gccttccctg gctccgtccc 120
ggccactttg accgaatcag cctgttcttt cccgaccccg tctcctatcs cckagaactg 180
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cgtgaagcca gcctaactga gctctggact ttggggacag ctgtcagtgg cctaggccgc 300
aggacaccat gaagcaactg ccagtcttgg aacctggaga caagcccagg aaagcaacat 360
ggtacacctt gactgtccct ggagacagcc cctgtgctcg agttggccac agctgttcat 420
atttaccccc agttggtaat gccaagagag ggaaggctct cattgttggg ggagcaaatc 480
caaacagaag cttctcagac gtgcacacca tggatctggg aaaayaccag tgggacttag 540
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tgggtggcagc agggacaaaag ctcttcatcc acggaggcct ggcgggggac agattctatg 960
atgacctcca ctgcattgat ataagtggac atgaaatggc aggaagctta aatcccactg 1020

```



```

ggggcttgct tccagcaggc tgtgctgccc actcagctgt ggccatggga aaacatgtgt 1080
acatctttgg tggrattgac tctgcaggg cactggacac atgttaccak twtcacacag 1140
aagagcagca ttggaccttg cttnaaatth gatactcttc taccocctgg gacgatttgg 1200
accantccat gtggtatcat tccatgggca gtgan 1235

```

<210> 232

<211> 2547

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2534)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2544)

<223> n equals a,t,g, or c

<400> 232

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aattgcaact cgggctggag ccccggaact gcaagcctgg gtgtccgtgg gtccgtctgc 120
ccagccatct gctggtggca cctctccctc ctgccgcctc cctcgtgtaa cccacacttg 180
cagaagtgca gctcgcccg agcagcccag gagctcagca tgcgtccccc aggettcagg 240
aacttcttgc tgcctggcgc ctcccttctc tttgctgggt tgcagctgt tctcaaagc 300
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gagcgagct gccgcgacc tgggcagccc ccggggggccg cgtgtgcca cggccggggc 420
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gtaagtgtga ctgtggcaag tgcaagtgtg accagggatg gtatggggat gcttgccagt 600
acccaactaa ctgtgacttg aaaaaagaa aagtaaccaa atgtgcaaga attcacaaga 660
catcatctgc tctaattgag gtacatgtca ctgtggcagg tgtaagtgtg ataattcaga 720
tggaagtgga cttgtgtatg gtaaattht tgagtgtgac gatagagaat gcatagacga 780
tgaaacagaa gaaatatgtg gaggccatgg gaagtgttac tgtggaaact gctactgcaa 840
ggctggttgg catggagata aatgtgaatt ccagtgcgat atcacccctt gggaaagcaa 900
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<210> 233

<211> 1004

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (967)

<223> n equals a,t,g, or c

<400> 233

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actggagatc tggaagccct caaaaaggaa accatttgtgt taaaggaaagg ttctgaatat 180
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cacacctaca ggactggggt gaaagtggat aaagcaacat ttatggttgg cagctatgga 300
cctcgccctg aggagtatga gttcctcact ccagttgagg aggctcccaa gggcatgctg 360
gcscgaggca cgtaccacaa caagtccttc ttcaccgacg atgacaagca agaccacctc 420
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cctgtccctc ctgacccctc atcagggccca gatcttccac gtctccatct cagtacacaa 720
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```

<210> 234

<211> 2110

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2067)

<223> n equals a,t,g, or c

<400> 234

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tatgaagggt attgaaaacc gggcctttaa agatgaagaa aagatggaac tccaggaaat 420
ccaactcaaa gaagctaagc acattgcaga agaggcagat aggaagtatg aagaggtggc 480
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ttggcttaaa atgtactctc cttttatgtg gtctcttttg ggccgattgg gagaaagaga 2040
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```

<210> 235

<211> 3528

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (92)

<223> n equals a,t,g, or c

<220>

&lt;221&gt; misc feature

&lt;222&gt; (237)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 235

```

tctgagctct gcagctcctt tccatsggaa cttgacwtcc acctcccgag agcttgctgt 60
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gtggcamctc ccctgaggtc tggagtactg tggctgcatt gagcacgtgt cctgartasc 180
ccctcttacc cgctcaatc tccccgctg taggatggga gcggattgga ctacatngtc 240
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<210> 236

<211> 538

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (538)

<223> n equals a,t,g, or c

<400> 236

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cacagcctcc agtgactcaa ccctgaagat cctggacctg atggaggggc cggctgctct 420
acacactcca cggggcatca gggaccagcc aactggcca agctccatgg ggaatctgcc 480
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<210> 237

<211> 2028

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (8)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (18)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (24)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1952)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1963)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1968)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2003)  
<223> n equals a,t,g, or c

<400> 237  
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aacaatgggt cactgaagac ccaggtccag atgaagctcc cagaatgcca gaggtgctc 180  
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<210> 238

<211> 1515

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1495)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1510)

<223> n equals a,t,g, or c

<400> 238

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<210> 239

<211> 1728

<212> DNA

<213> Homo sapiens

<400> 239

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<211> 1117  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1113)  
<223> n equals a,t,g, or c

<400> 240  
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<211> 2371  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2366)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2371)  
<223> n equals a,t,g, or c

<400> 241  
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aaaaaaaaa aaaaaaaaaa aaggnggcc n 2371
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<210> 242

<211> 3276

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1014)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3276)

<223> n equals a,t,g, or c

<400> 242

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<210> 243

<211> 736

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<400> 243

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<210> 244

<211> 2311

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (983)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1471)

<223> n equals a,t,g, or c

<400> 244

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2311

&lt;210&gt; 245

&lt;211&gt; 4065

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 245

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tctctttcaa accagagcca tatatatgtc tgtatatatg ggacctactg cttctctgag 2640
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<210> 246

<211> 1485

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<400> 246

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aggacgagct cttgagttag acccaacaag ctgcttttca ccaaattgca atggagcctt 180
tcgaaatcaa tgttccaaag cccaagagga gaaatggggt gaacttctcc ctagctgttg 240
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aacaaggcgc cccagggtctt caaggtcaca agggggccat gggcatgcct ggtgccctg 600
gcccgcggg accacctgct gagaaggagg ccaanggggc tatgggacga gatggagcaa 660
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cccagggtgc tccagggaag caaggagcca ctggcaccac aggacccaa ggagagaagg 780
gcagcaaagg cgatgggggt ctcatgggcc caaaagggga aactggaact aaggagaga 840

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aaggagacct gggctctcca ggaagcaaag gggacagggg catgaaagga gatgcagggg 900
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gtttggctgg ttttccctgga gctaaaggag atcaaggaca acctggactg caggggtgttc 1020
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```

<210> 247

<211> 1486

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1447)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1472)

<223> n equals a,t,g, or c

<400> 247

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gccctgcgg gggcatcaag ctgcangccg agcgggcccg cgaggagggc atccggctct 180
tcgcgctggc ccccaaccag aacctgaagg agcagggcct gcgggacatc gccagcacgc 240
cgcacgagct ctaccgcaac gactacgcca ccatgctgcc cgactccacc gagatcgacc 300
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cgggcatcga agggcccatg ggattcccag gacccaaggg cgttcctggc ttcaaaggag 540
agaagggtga atttgagacc gacggtcgca agggggcccc tggcctggct ggcaagaacg 600
ggaccgatgg acagaagggc aagctggggc gcatcggacc tcctggctgc aaggagagacc 660
ctggaaccg gggccccgac ggtaaccgg ggaagcagg gagtccagg gagcgaggag 720
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gggccaaggg aagcaagggg tatcaaggca acartggagc cccaggaagt cctggtgtga 840
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accccgggcac caagggcgagc ccaggcagcg atggcccaa gggggagaag ggggacctg 960
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&lt;210&gt; 248

&lt;211&gt; 1994

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 248

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ccgtggggag ggatagagac ccacttgag gccgagaatg agggcaacag tgggaacagc 120
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cttggtggc ttgcagggtt cctaagaaac tccactctg acagcgccag gaggccctgg 1860
gttccattcc taactctgac tcaaactgta catttgata agccctagta gttccctggg 1920

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222

cctgtttttc tataaaacga ggcaactgga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980  
aaaaaaaaaa aaag 1994

<210> 249

<211> 1661

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (810)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1627)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1630)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1633)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1648)

<223> n equals a,t,g, or c

<400> 249

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cagaacttgg agactgcaat gaggatctgg agcaggtgga gaagtgcagc ctccctgaat 180  
gccccattga ctgtgagctc accgagtggc cccagtgggc ggaatgtaac aagtcagtgt 240  
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cagtgtgggt cgcccagtag tcttggtgat gccagagaca tcctttctga atacttcttg 780  
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```

<210> 250

<211> 2358

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<400> 250

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cgtcaattac attacagcct acatggctct ctttgacttc ggcaacctac agcctggcca 240
cagcgtcttg gtacacatgg ctgcaggggg tgtgggtatg gctgccgtgc anctgtgccg 300
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<210> 251

<211> 697

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (667)

<223> n equals a,t,g, or c

<400> 251

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gctccaacat ggcaaaaatc tccagcccta cagagactga gcggtgcac gagtccctga 180
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cagaatttct taatctgatt ggtggcctag ctatggcttg ccatgactcc ttcctcaagg 420
ctgtcccttc ccagaagcgg acctgaggac cccttggccc tggccttcaa acccaccctc 480
tttccttcca gcctttctgt catcatctcc acagcccacc catcccctga gcacactaac 540
cacctcatgc agggcccacc tgccaatagt aataaagcaa tgtcactttt ttaaaacatg 600
aaaaaaaaaa aaaaaaaag ggggggcggg tarargatcc aagyttacgt accgcgtgca 660
tgcgacngtc atagctttt ctataagtgg tcaccct                                     697

```

<210> 252

<211> 2958

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2286)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2917)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2934)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 252

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<210> 253

<211> 2527

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2171)

<223> n equals a,t,g, or c

<400> 253

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<210> 254

<211> 1183

<212> DNA

<213> Homo sapiens

<400> 254

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<211> 2051

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

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<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2027)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2046)

<223> n equals a,t,g, or c

<400> 255

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<211> 686

<212> DNA

<213> Homo sapiens

<400> 256

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<210> 257

<211> 2322

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2319)

<223> n equals a,t,g, or c

<400> 257

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<210> 258

<211> 2261

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2115)

<223> n equals a,t,g, or c

<400> 258

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<210> 259

<211> 1374

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (929)

<223> n equals a,t,g, or c

<400> 259

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<210> 260

<211> 1958

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1843)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1915)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1934)

<223> n equals a,t,g, or c

<400> 260

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gatataactc ctgtgatgaa cacatggagc ttgatgacct tcctgaactt caggcagttc 240
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gtgatccttg gtgacaggtg gaagaaaatg aagaatgaag agagaagaat gtacacatta 1500
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<210> 261

<211> 2952

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 261

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aaaaaaaaaa aa 2952

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&lt;210&gt; 262

&lt;211&gt; 1367

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1316)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 262

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<210> 263

<211> 2986

<212> DNA

<213> Homo sapiens

<400> 263

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&lt;210&gt; 264

&lt;211&gt; 1027

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 264

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ctacgag 1027

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&lt;210&gt; 265

&lt;211&gt; 1561

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 265



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<210> 266

<211> 1586

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1544)

<223> n equals a,t,g, or c

<400> 266

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<210> 267

<211> 772

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (639)

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<221> misc feature

<222> (707)

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<220>

<221> misc feature

<222> (736)

<223> n equals a,t,g, or c

&lt;400&gt; 267

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&lt;210&gt; 268

&lt;211&gt; 2482

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (255)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 268

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2482

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&lt;210&gt; 269

&lt;211&gt; 2494

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 269

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<210> 270

<211> 1827

<212> DNA

<213> Homo sapiens

<400> 270

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<210> 271

<211> 3726

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (3523)

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<222> (3664)

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<221> misc feature

<222> (3687)

<223> n equals a,t,g, or c

<400> 271

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<210> 272

<211> 656

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (198)

<223> n equals a,t,g, or c

<220>  
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<222> (605)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (619)  
<223> n equals a,t,g, or c

<400> 272  
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<210> 273  
<211> 1177  
<212> DNA  
<213> Homo sapiens

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gctctcctgt ctcccagtga agacttggat ggcagccatc aggggaaggct gggctccagc 1080  
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245

<210> 274  
<211> 1353  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1344)  
<223> n equals a,t,g, or c

<400> 274  
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aatgcgaacc ctgagcagcc tggattcatt ggggatgact ttgacttagc agatgcctta 180  
catgacaaaag gaaactacga gccagcacca ctgaaccac ccaaaccaaa gccaaatcca 240  
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aaaaaaaaaa aaaaaaaaaa aaangggggg ggg 1353

<210> 275  
<211> 2662  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2647)  
<223> n equals a,t,g, or c

<400> 275  
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acgccgtact ggaggttgcg cctcgggtggc gccgcgctgc tcctgctgct catcccggtg 180  
gccgccgcgc aggagcctcc cggagctgct tgttctcaga acacaaacaa aacctgtgaa 240  
gagtgcctga agaacgtctc ctgtctttgg tgcaacacta acaaggcttg tctggactac 300

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<210> 276

<211> 2554

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2529)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2537)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 276

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&lt;210&gt; 277

248

<211> 1806  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1790)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1800)  
<223> n equals a,t,g, or c

<400> 277  
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ccgaccatgg agggactgag tccagcccag gctggggctc ctccgggacc tggagcctga 180  
gcccctccga ctccagcccg tctgggggtca cctcccgccg gcctggccgc tccaccagcc 240  
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<212> DNA  
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<211> 2412

<212> DNA

<213> Homo sapiens

<400> 279

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&lt;210&gt; 280

&lt;211&gt; 3572

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 280

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<212> DNA

<213> Homo sapiens

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<222> (45)

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<220>

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<222> (2352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2355)

<223> n equals a,t,g, or c

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&lt;210&gt; 282

&lt;211&gt; 1587

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 282

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<210> 283

<211> 1973

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

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<222> (1581)

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&lt;210&gt; 284

&lt;211&gt; 1062

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 284

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1062

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&lt;210&gt; 285

&lt;211&gt; 1419

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (148)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 285

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cgacttacac cagaggatcg ataagttccg tttcacccca cctttggagg acagctgctt 420
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&lt;210&gt; 286

&lt;211&gt; 1958

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 286

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<210> 287

<211> 1230

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1012)

<223> n equals a,t,g, or c

<400> 287

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ttacagtctg ttgagtcag ttctgtgcct gtagtctgac agcaggggag tgaggtgagt 180
cctgtcactg ccttcctgtt gtgcagaggt ggagacagat acagggcagc caagtaactt 240
gtctcagttt acamgcacag cttgtacasc agaratttga arccccttaa tcggcctctc 300
caccocygga tawtttcttc ccataaatgg aggtgatggg gtctgaaagt gcaactgtaac 360
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<210> 288

<211> 1637

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (781)

<223> n equals a,t,g, or c

<400> 288

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<210> 289  
<211> 3308  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (3255)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3269)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3282)  
<223> n equals a,t,g, or c

<400> 289  
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<210> 290

<211> 2239

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2238)

<223> n equals a,t,g, or c

<400> 290

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cccaggcagc aacttgaatt tgctcaccaa caattctggg actgagtgagg aagcccatcc 180
tgaccagctg ctccgaggac ccaggaaaagg caggattgaa aatgtccagg aaagtggcca 240
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<210> 291

<211> 1516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<400> 291

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<210> 292

<211> 2209

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2128)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2160)

<223> n equals a,t,g, or c

<400> 292

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gttgaattct gactgcccct ttctagctgg acctttaaca aatcacccaa tcttttttgt 300
gtttctctaa agtcatttat acattaaatg taattatagc aactgtgggg ttctgttgag 360
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<210> 293

<211> 2071

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2046)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2054)

<223> n equals a,t,g, or c

&lt;400&gt; 293

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&lt;210&gt; 294

&lt;211&gt; 1851

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1849)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1850)

&lt;223&gt; n equals a,t,g, or c

<220>

<221> misc feature

<222> (1851)

<223> n equals a,t,g, or c

<400> 294

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<210> 295

<211> 2998

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)  
<223> n equals a,t,g, or c

<220>  
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<222> (16)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (195)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2967)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2971)  
<223> n equals a,t,g, or c

<220>  
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<222> (2977)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2981)  
<223> n equals a,t,g, or c

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<210> 296

<211> 1282

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

&lt;222&gt; (1281)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 296

```

ttncaaaaag ctatttaggt gacactatag aaggtacgcc tgcaggtacc ggtccggaat 60
tcccgggtcg acccacgcgt ccgcacggtg ctatgtgagc tcattaatgc actgtacccc 120
gaggggcagg cccacagtaa gaagatccag gcctccacca tggccttcaa gcagatggag 180
cagatctctc agttcctgca agcagctgag cgctatggca ttaacaccac tgacatcttc 240
caaactgtgg acctctggga aggaaagaac atggcctgtg tgcagcggac gctgatgaat 300
ctgggtgggc tggcagtagc ccgagatgat gggctcttct ctggggatcc caactgggtc 360
cctaagaaat ccaaggagaa tcctcggaac ttctcgata accagctgca agagggcaag 420
aacgtgatcg ggttacagat gggcaccaac cgcggggcgt ctcaggcagg catgactggc 480
tacgggatgc cacgccagat cctctgatcc caccacaggc cttgcccctg ccctccacg 540
aatggttaat atatatgtag atatatattt tagcagtgc attcccagag agcccagag 600
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ctgctggcat cctctcccc atgcttacta atacattccc tccccatag ccatcaaac 720
tggaaccaact ggctcttcc tttcccctgg gaccaaaatt taggggcctc agtcctcac 780
cgccatgcc tggcctattc tgtctctcct tctccccct ggctgttct gtctctgagc 840
tctgtgtcct ccgttcattc catggctggg agtactgat gctgcctctg cttctctgat 900
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cttactgtg gctaaggggt ggggtgagg gatggagagg gagggctgcc taccatggtc 1140
tggggctga ggaagatgag ttgttgatt taaataaaga atttgtcatt ttgaaaaaa 1200
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaaaa aaaaaanaa na 1282

```

&lt;210&gt; 297

&lt;211&gt; 678

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 297

```

cggaattccc gggctgaccc acgcgtccgg aggaacaaaa ccaccctctg ggggtagttt 60
acagactgag tgacagtact cagtatatct gagataaact ctataatgtt ttggataaaa 120
ataacattcc aatcactatt gtatatatgt gcatgtattt tttaaattaa agatgtctag 180
ttgcttttta taagaccaag aaggagaaaa tccgacaacc tggaaagatt ttgttttca 240
ctgcttgat gatgtttccc attcatacac ctataaatct ctaacaagag gccctttgaa 300
ctgccttggtg ttctgtgaga aacaaatatt tacttagagt ggaaggactg attgagaatg 360
ttccaatcca aatgaatgca tcacaactta caatgctgct cattgttggtg agtactatga 420
gattcaaat tttctaacat atggaaagcc tttgtcctc caaagatgag tactagggat 480
catgtgttta aaaaaagaaa ggctacgatg actgggcaag aagaaagatg ggaaactgaa 540
taaagcagtt gatcagcatc attggaacat ggggacgagt gacggcagga ggaccacgag 600
gaaataccct caaaactaac ttgtttacaa caaaataaag tattcactac caaaaaaaaa 660
aaaaaacct ctaaaaaa 678

```

&lt;210&gt; 298

&lt;211&gt; 1682

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 298

```

ggcgcccccc cccctttgtcc agctgggaca cgaggccgcg ggctcctccc cctccccctcc 60
agcctctcca ccagcccctc cagtcaaccc tcatcgccgt gccccccag agctagagag 120
atggggcccc tgcgtggccc gaggggyaga gctgggcgtc acttcgcaag cgtcctgccc 180
tgccggggcg cggggggtgg ctctggggaa gccgggtgcg cccccacgcc tccgctgcca 240
gtgccttaca ttctggagcg acccccctcc ctggtgcctc ccagcgaagg gggaccgccc 300
tttgcacttt catcgccctac cccgacgsgg ggcccagytg cgggamtgc atcacggctg 360
ggccccccaga ggagagagga ggccgacgcc agcgggtccc gctcggaacg gggagggttt 420
tcgggggggtt cggcgctcgca ccttggggcc ccccgacgcc gtgtaggggg cctcccatct 480
gctaagcgtt tttccgttga gccgctccaa aaacactaag ctggggacgc cagggtgcccc 540
cccaccccgg ctccctggcc ctatccacac ctccaccccc accccaggat cgccatcttt 600
aggggaggcc tgggaggggg tgtaggtgt tttagggcca ccgagctcaa acacaaggac 660
ccctccccgg cccaccagc ccagcccaa ctgacctcca tgcctaggga aaaactcccc 720
ccaccactgc cccctcccc gaccaggcc aaagccaggg cagggtctcc ggtctcacct 780
gctcctagcc tcacccccct gccccgaaa accagactct cctcccaaac tagcctcagg 840
agcttggcga acccgctcgc tcctaaagag aaagaccag gacctcccc catcaccccc 900
aagagaggtt cgccatcctc tggcctcgag cccttggtcc ctccgtccgt ctgtcctcgg 960
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aaaaaataaa aattgaaaag ggatgtattt ctatttgtaa aaaaaataaa ataaaaata 1560
agaaagtgag aatctaaaaa aaaaaaaaaa aaaaaaaac gsgaggccaa ctgaccttat 1620
aaccctytgm accttcaaaa agattcatgg tttttaatts ctgcttttaa taacatttgt 1680
ta
1682

```

&lt;210&gt; 299

&lt;211&gt; 1594

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1550)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1592)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 299

```

gctcatgcct gtcacctag cactttggga ggccaaggca ggtggatcac ttgaggtcag 60
gagaccagcc cggccaacat ggtgaaaccc catctctact aaaaaataaa aaattagctg 120
gaaatcgctt gaacctggga ggtggaggtt ccagtgaacc gagatcgtgg cactgcactc 180
caacctgagc aacagagtga gaccacagct caaaaaaaat tttttaataa taataaaagt 240

```

```

cctattattc aactggttat gtacattatg gttgaaaggg aacgttttta tccagtctca 300
atccagggca atagaattac aaagcatggt gtatttcagt tcaaatggta ttgtattata 360
aaattacagt tacattttcc tttckgtgat cttcagcata atttcccaga ggcccccttt 420
tcctccctat aggccatctt attaacagat tttaaaattt atagtaatga caaatgactt 480
atcagtgttc atcatctgaa agctaagtgg ttcgttcaat cactttttca aagttgtag 540
tagattgcat gggttcatkt ttctcatat tggtttatta attctattta atcaaggaaa 600
ataacttcag attccataaa gtttcagttt atttttagtt tactactagg tgagatagca 660
cattacatac ttttactatc aaatattatt ttagcagctt cccatagtag caaatgat 720
gattccctac tctcatttyt taaagcatat aaatatttat gggcttaaaa aggggggttt 780
taaaaactga ggatatcagt aataaattgc agaataattt gcaaagcttt cttttggaaa 840
gcaaactttt gtgcctgcct atatgcaaag tattttatca gggacttgaa caaagacctc 900
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aaatgtgtca aagacatact gttgggtgca atattaacaa ttttaaatgc aaatttcttt 1440
ggataaatta ttctatatt ctgtaaatct gagatttaat gtatatattg tttaaaaaaa 1500
tgatttagta aaatctttga aaagtatgat cttctaaagt atttwaan aaaaaaaaaa 1560
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa anaa 1594

```

<210> 300

<211> 1102

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1057)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1070)

<223> n equals a,t,g, or c

<400> 300

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gccaccagg ctgcgcaaac ggccctccag ccagactaac ccctcccat cctcctccag 60
ggtccgggac cctgttcaag aacgcgagc gaatgctacg ggtgcgcacc tggacaagct 120
ggaccagggc cgtctagtgg acctggtcaa cgccagcttc ggcaagaagc tcagggacga 180
ctacctggcc tcgtgcgcc cgcggctgca ctccatctac gtctccgagg ggtacaacgc 240
cgccgccatt ctgacctagg agcccgctcct ggggggcacc ccgtacctgg acaaatttgt 300
ggtgagctcc arccgccagg gccaaggctc cgccagatg ctgtgggagt gcctgcggcg 360
ggaccttcag aacttttctt ggcgctccc ggtcaccaac cccatcaatc cctggtactt 420
caaacacagt gatggcagct tctccaacaa gcagtggatc ttcttctggt ttggcctggc 480
tgatatccgg gactcctatg agttggtcaa ccacgccaag ggactgccag actcctttca 540
caagccagct tctgacctag gcagctgacc ttcacctagg acactacagg ccctggaatg 600
gccaggggtg accaaaagcc atgccagctg ggcagacctc caggcagcca gccacaggct 660

```

271

```

gaagggggct tggtggctga gtgatctgca gaggagaaa cagccccagc tctgcccaga 720
ggagggcgctg aagtgggaca agcacaggaa agaaggggac cagtctagga ccccaacttg 780
actcactcta aagctacaac caaatggcct tcgattttca acctggggat taggggaggg 840
gaggggtgcct tccagggctc tactcaggac taaccctaag ggtgagctag tttctgtgcc 900
tctgtgctat gttttgaggc tcccttacct aaaataatac ccctgcctgc gtgatattct 960
accattcatt ttaattcctt tgggtcttgc agtttttcag gargccttga ttaaaatgca 1020
aatacttgctc tgaaaattcc gcttacactt tgaaaanaaa attaaaattn acccccttgg 1080
aaacaaaatt tttttttttt tt 1102

```

```

<210> 301
<211> 1089
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1043)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1073)
<223> n equals a,t,g, or c

```

```

<400> 301
ccttttgccc ttttgtaaac tctgaaggtt agtcagtggg tttnttcaaa attgcattag 60
gaaatttccc aagggcatcc ttttaaggca gctgtctctg tacccttgga ggccatcagt 120
aaatgtttcc aatctatagc agaggtagtt atggaggagg tgatggtgga tataatggat 180
ttggagggtga tgggtggcaac tatggcggtg gtcctggtta tagtagtaga gggggctatg 240
gtggtggtgg accaggatat ggaaaccaag gtggtggata tgggtggagg ggaggatatg 300
atggttacaa tgaaggagga aattttggcg gtggttaacta tgggtggtgt gggaactata 360
atgatttttg aaattatagt ggacaacagc aatcaaatta tggacctatg aaagggggca 420
gttttggtgg aagaagctcg ggcagtcctt atggtggtgg ttatggatct ggtggtggaa 480
gtggtggata tggtagcaga aggttctaaa aacagcagaa aagggttgaa tgagaaccct 540
acttgcctaa atgaggaatg tctttcctac catctaaaat acgaagggtt ctggctgggt 600
aaggtttgta gttgacagta aaacctgatg acaccatttg tttccctgca agtctacatt 660
acatatttca caactttgtc cctctctagt aggcacattg gaaaaattct tcaactgaaa 720
actaccttgg taccatgtcc tacacgtttt aaaccttagt tttaaaaatt cccctgcgaa 780
atagccataa gtattcatat caagtcagtt gtgactcctt gtgtatacaa ttcatttttt 840
gtgtcttcag ggtaaaactca atttttggta aagtggtttc agcttttgtg aaaaccgttt 900
ttgtgtgtaa gcatgacaca caacagactc agtaagctgc ccatcctcat actagggaaa 960
acaccttcaa aggggaacatt aaaagttacc rgggccrggc acatggctca cgcctgtaaw 1020
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ggacgaggc 1089

```

```

<210> 302

```

<211> 1284

<212> DNA

<213> Homo sapiens

<400> 302

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attagaaccc ccttgaaaac ctttgtgaga aagtagggaa caaattctcc ctgtgacttc 120
tggtcttgaa ggtgtccag ggtttaagtt ggaaagcccc ctttctgtgc ccaaraggwg 180
tctwaggamc agctccacc catgrstgaa gacttccttc tggatgcttt gtctgaggac 240
ttctctggtc cacaaaatgc ttcattctct taaatttgaa gatgctaaac ttgtgctgtc 300
catctctgaa gtggtttccc aaaccccagc ttcaacgacc caagctggag cccacccccg 360
tgatacctcg cagagtgaca aagacctcga tgatgccttg gataaactct ctgacagtct 420
aggacaaagg cagcctgacc cagatgagaa caaaccaatg gaagataaag taaaggaaaa 480
agctaaagct gaacatagag acaagcttgg agaaagagat gacactatcc cacctgaata 540
cagacatctc ctggatgata atggacagga caaacagtg aagccacctc caaagaaatc 600
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ggacagctgt ccctccacta cagaaacctc acagaacaca gcaaaggata agtgcaagaa 720
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aacagaggaa acttccaagc caaaagatga ctaaaagaaat acaagttaag gtatctggta 840
tctgcatgta aaatcttcag ctggtggatg gtgacttttg aagaacaaaa ggctttggca 900
acagaaaaca attgttctgg gtgatttcta gaatggtttt tgttgagtct ctgaacatcc 960
taaatattgg tttgttattc tttccagaa agaaaatgaa tttgactggg tcacctgtgt 1020
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agctaagtga atttttgac attctacaca cagtgcctgt aaatctcatt tgtattttca 1200
gtttgccctt aatttttttt gttagtgttt agaaaacaat gttttaaaca ttaaaaaaaa 1260
aaaaaaaaaa aaaaaaaaaa aatt                                     1284
```

<210> 303

<211> 1109

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (638)

<223> n equals a,t,g, or c

<400> 303

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accatgtcat ctccagtcg gggcaagagg cggatggaca cggacgtggt caagctcatc 120
gagagtaaac atgaggttac gatcctggga ggacttaatg aatttgtagt gaagttttat 180
ggaccacaag gaacaccata tgaaggcgga gtatggaaag ttagagtgga cctacctgat 240
aaataccctt tcaaactctc atctatagga ttcatgaata aaattttcca tcccaacatt 300
gatgaagcgt caggaactgt gtgtctagat gtaattaatc aaacttgga agctctctat 360
gatcttacca atatatattga gtccttcctg cctcagttat tggcctatcc taaccccata 420
```

```

gatcctctca atggtgacgc tgcagccatg tacctccacc gaccagaaga atacaagcag 480
aaaattaaag agtacatcca gaaatacgcc acggaggagt ttttcttaca taatttgcaa 540
tttcaggaat ttaatttata ggcagatctt taaatacagt caacttacgg tgcacagtaa 600
tatgaaagcc acactttgaa ggtawtaa atacacagcntg cagactggga gttgctagca 660
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caaagttact ggctctttgt gtgtctccag gtaactttgc ttgattaaac agcaaagcca 840
tattctaaat tcaactgttg atgcctgtcc cagtccaaat tgtctgtctg ctcttatttt 900
tgtaccatat tgctcttaaa aatcttggtt tggtagcagt cataattcac caaaagtcca 960
tataatttaa aaaaacacta aattagttta aaatgaagca atttatatct ttatgcaaaa 1020
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aaaaaaaaa aaaaaaaaaa aattctgcg 1109

```

<210> 304

<211> 588

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (585)

<223> n equals a,t,g, or c

<400> 304

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ttcttctctc ataaagtga tttattccttt tttttgtttt atgtaagtgt atatattctt 120
agtttttctt gaaatcattg taatgttaac tttgttggtt caaatatctt ggtgattgct 180
tcattatctc ttcaacaaaa aaaaccttta attttgccat tgaaactgta gaactatgcc 240
atgcttttat tagaagcagt gctctgtggt aacaacaaga atgggtgtaat tagaattggg 300
atgtggatat ttactgtatg acaacacatt tacagttctg taatgcaagg atgcagttaa 360
aaaatgtgaa gtagtgatgg tttttgaaat aagctttaaa atatagggat cttgaaggct 420
ccctggggta actattttat aacttagata aaatggctag tcatatctgt gtgtttgtaa 480
agttattttt ttaatatattt aagrttacia ttttaacaat gtagraatga gccaaacttt 540
taaattkaaa acagtaarac aaatggaaac cnatagntca caaantcc 588

```

<210> 305

<211> 2019

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature  
<222> (1979)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1990)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1995)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2001)  
<223> n equals a,t,g, or c

<400> 305  
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aatgaatttg actggttcac ctgtgtactg agtattgata aactttgaat ttttttaatt 120  
gccttcaatt gggagagaaa gctttatatt tgtaagaaat atatttgata aagtttctta 180  
aagcaacacc aaaaaaacia aagaaaagct aagtgaattt ttgcacattc tacacacagt 240  
gcctgtaaat ctcatattgta ttttcagttt gcccttaatt ttttttgta gtgttttagaa 300  
aacaatgttt taaacattct tcagtgttct gatttcttat taccoccttt cctcttgggc 360  
ttttgaactg tatttgatgt tgctttggga taatgtttat aagtcaaaca taagatattg 420  
tacattgggc acatatctcc tcttgggctg ctaataataa attaataaca ggtaacctgg 480  
acaaaccagg aagcaccaaa ccccttttca gtttgaactc ttctttgcca ggtgtgagga 540  
cttctgcac ttacagtcag cacagaacac actgagactt gaatcaagtc agcaacagag 600  
caaaataaag gttagataag tccttggtga gcaaatttgc agcataagaa ataaaatcta 660  
attaattctt agggtaactca tctgacttga actctgttgg ttactgtgt tagtaaacgt 720  
tgctttctat tatctataca taaaacctga gcagcaactg tgtctttaga gctattgcca 780  
cattagcctt tgcactgtat agcgtctggc tttatggaac ttaagtttac caaatataaa 840  
aagaaacttc tgcttttaaa aaaattatat atatatatta aatttgaaac ctgcatttct 900  
cccacagcaa tgtaagaagt aggtctgat gtcctaccac tttgaatggt tttctaatat 960  
cttaatgaat agttcctgaa cattgcactg atatcatcga ttagaatttt gatatttaat 1020  
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gattgggaat ttattgtttc caaagggcat ggccttcctt agcatcagtt tgaagctttt 1140  
gttatgactt agctgacttg tggcagcggg gcaagcaaaa acaataacac tgcttataaa 1200  
tggcaccaca tcttgtaaac ctcccccca aatactctct gaaagtcag cacaaccta 1260  
tgggatttta cacaccacca gcttaaaatg ctatgtctct atccatcaga aatagtcatt 1320  
attctatttt taaggcagca acaagaaaag aaaaaacact tttcctgagg gatttctaac 1380  
catgtatcta atcctcccat ttgggcagta taggtgtttg cttttttgtt ttcttttttt 1440  
aagaaaaacc ttgaaacctt tgacactgac agatgtgttt gcaaggatac ggctkcagta 1500  
ttactaatth ccatgtgtat ctggaagtat ttttaaatgg cataccaaaa tccagaagtt 1560  
taaagatgcc tataaaagta aacaacattt atttaaaaag aactctgaat atgccttctt 1620  
ttttaattag aaatatcttc gagacttggg tgtttgttaa taactaataa ctggagtaag 1680  
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&lt;400&gt; 307

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&lt;211&gt; 4253

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 308

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<213> Homo sapiens

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<210> 311

<211> 1296

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<400> 311

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<210> 312

<211> 1348

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1306)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1313)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1316)

<223> n equals a,t,g, or c

<400> 312

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```

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<210> 313

<211> 413

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<400> 313

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tgtctcttat catgttggtg gaggtggccg cagccattgc tggctatgtg tttagagata 180
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<210> 314

<211> 1743

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1731)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1738)

<223> n equals a,t,g, or c

<400> 314

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ggagcttggg tgagcaaggt tggaggtgat tctgcccctc tcccaggct ttctgtatta 180

```

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gaaaactgaa gcttcaagaa cagacttgcc taacaacagg aaacttgat gtctcgaagt 240
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&lt;210&gt; 315

&lt;211&gt; 2044

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 315

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<210> 316

<211> 1750

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (784)

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<220>

<221> misc feature

<222> (1491)

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<220>

<221> misc feature

<222> (1671)

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<220>

<221> misc feature

<222> (1704)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1732)

<223> n equals a,t,g, or c

<220>

<221> misc feature

&lt;222&gt; (1734)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1746)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 316

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&lt;210&gt; 317

&lt;211&gt; 2383

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 317

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caacattgtc ttcatgcccc tcattgggaa gcgacacgaa ggaagcagc tctacacctt 2160
tggccgcatt gtgatctaca tcgaccgggg agtggctctt gtccagggcg agaagacgtg 2220
ggtgcccacc tactgcaga gcctgatcga catggccaag tgaactgtgg caggtccaga 2280
accagtcaga gacttgcccc taagagggat gtactgtaaa taaacagtat ttttagatca 2340
ccttcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 2383
```

<210> 318

<211> 1061

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

&lt;400&gt; 318

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cancagttag atgcatcaga aaggagatcc gggatttgta tgtaacatc cagcctgttc 180
aagaacctaa agaccaagca ttgggcaatg gaaatggaat aataattatt gctgagacct 240
ccactggctg tttgtttgct ggatcatcgc ttggtaaacg aggtgtaaat gcagacaaag 300
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atgatacttc attgatatat tgcactatth cataaatact ataaaataat gactaggaag 660
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```

&lt;210&gt; 319

&lt;211&gt; 2372

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (81)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1048)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1289)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 319

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gcatggagga ggcggaggcc gcggcgagcc gggccgagca tgagggccct agcggggccc 60
garcrgggcc cggggcccct naagccattc ctgaagtcac gggctggcca ggacattggg 120
gacccgccaa tccggtatgg acgactggaa gccacgcccc ctcatcaagc cctttggggc 180
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gcggagattc tgcagacagc gggccgtgct thtctgtctg gtgactgtca ttgtcaatat 300
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ccggcgggtc ctggacgtag aggtgtattc aagtcgcagc aaagtatatg tggcagtggg 480
tggcaccacg gtgctggagg atgaggcccg ggagcagggc cggggcatcc atgtcattgt 540
cctcaaccwg gccacggggc acgtgatggc aaaacgtgtg ttgacacgt actcacctca 600
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cctgggcagc cagctggccc tgccctgggc tggagggaca catgggcctt cgtgggacga 780
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<210> 320

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

&lt;400&gt; 320

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tcttcttagt agctattacc ttcttattat ttgatctaga aattgccctc cttttacccc 240
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aatnaaaaaa aaaaaaaaaa aaactcgrgg gggggccngg taccatycs ccctaaaggg 420
aagnggatta caattcac                                     438

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&lt;210&gt; 321

&lt;211&gt; 2895

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1255)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 321

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&lt;210&gt; 322

&lt;211&gt; 1175

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 322

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tcactttcaa aaaaaaaaaa aaaaaaaaaa aaac 1175

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&lt;210&gt; 323

&lt;211&gt; 3578

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (10)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3552)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3557)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 323

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<210> 324

<211> 1715

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<400> 324

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<210> 325

<211> 1688

<212> DNA

<213> Homo sapiens

<400> 325

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gctggcgagc cgacgcggcg cgggaggagg ctgtgaggag tgtgtggaac aggaccggg 180
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aaaaaaaaa                                     1688

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<210> 326

<211> 1632

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1540)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1560)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1566)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1595)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1615)

<223> n equals a,t,g, or c

<400> 326

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acgaggactc ggaccaggac cgagaggagc ggaagctgct gctggaccct agcagcccc 240
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gctcttctcc tctcttcac ccatctctac cccacccctc tggcccccag cctcactgcg 720
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<210> 327

<211> 2222

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2212)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2215)

<223> n equals a,t,g, or c

<400> 327

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gg 2222

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&lt;210&gt; 328

&lt;211&gt; 2167

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 328

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catcccatgg gtgttggtgatt cggccatcag gaggaggttt gaaaaacgaa tttatatccc 960
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<210> 329

<211> 2373

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<400> 329

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ggaaaagggg agacaacagt acagacacca cccaaggaga ccctttgtcg atccaccact 180
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<210> 330

<211> 1369

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1323)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1343)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1358)

<223> n equals a,t,g, or c

<400> 330

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<210> 331

<211> 2864

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2850)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2858)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2860)

<223> n equals a,t,g, or c

<400> 331

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&lt;210&gt; 332

&lt;211&gt; 1985

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<221> misc feature  
<222> (360)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1985)  
<223> n equals a,t,g, or c

<400> 332  
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gggtn 1985

<210> 333  
<211> 3087  
<212> DNA  
<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (143)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (166)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 333

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<210> 334

<211> 898

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (849)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (886)

<223> n equals a,t,g, or c

<400> 334

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<210> 335

<211> 944

<212> DNA

<213> Homo sapiens

<220>  
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<222> (892)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (908)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (917)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (936)  
<223> n equals a,t,g, or c

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<210> 336  
<211> 1607  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1162)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1449)

<223> n equals a,t,g, or c

<400> 336

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 1607
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<210> 337

<211> 3156

<212> DNA

<213> Homo sapiens

<400> 337

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cctgagggag cctcgccgcc cgccccggc acacgcgcag ccccgccctc tcggcctctg 180
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<210> 338

<211> 1015

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (958)

<223> n equals a,t,g, or c

<400> 338

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&lt;210&gt; 339

&lt;211&gt; 2088

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 339

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caatctttgc agacttctct ttctttccat gctaccagtt gtaaaggaca cagctatatc 2040
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<210> 340

<211> 3124

<212> DNA

<213> Homo sapiens

<400> 340

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&lt;210&gt; 341

&lt;211&gt; 245

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (240)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 341

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&lt;210&gt; 342

&lt;211&gt; 5668

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2482)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 342

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<210> 343

<211> 814

<212> DNA

<213> Homo sapiens

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<222> (659)

<223> n equals a,t,g, or c

<220>

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<223> n equals a,t,g, or c

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<221> misc feature  
<222> (814)  
<223> n equals a,t,g, or c

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gtggaatttg aaacaaaaga acaagcagca aaagcaattg aggtaagtcc agatcctann 660  
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<211> 901  
<212> DNA  
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<223> n equals a,t,g, or c

<220>  
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<222> (764)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (858)

<223> n equals a,t,g, or c

<400> 344

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gatataggac agtactgtat catacctctg tgaatgtaaa atatcttgac ctgctttatg 840
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<210> 345

<211> 2588

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2564)

<223> n equals a,t,g, or c

<400> 345

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caacttactt agaaatgaag tacagggtcg tgatgatgcc ttagaaagac gtatcaatga 240
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tgatttcatt caagataact atgccctaaa agagacttta agtactatta aggataatag 360
tgagatccat cataaatgta cctccgatat ggaaactatt ttgacattta ttcctcagtt 420
ccaccgtctg aatgattcta ttcagacttt ggtcaatgac aatcagagat ataactttgt 480
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gactcggttg caagacattg agtctaaagt taccagacg ctcatacctt attatatttc 720
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<210> 346

<211> 3770

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<400> 346

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gccaggaaga tcatgcagga caaggagaag atccgcgaga agtacgggcc cgagtggggc 180

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<210> 347

<211> 2358

<212> DNA

<213> Homo sapiens

<400> 347

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&lt;210&gt; 348

&lt;211&gt; 2044

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (94)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 348

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tgta

2044

&lt;210&gt; 349

&lt;211&gt; 793

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 349

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aaaaaaaaaa aaa                                     793
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&lt;210&gt; 350

&lt;211&gt; 1058

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1033)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1034)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 350

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<210> 351

<211> 1348

<212> DNA

<213> Homo sapiens

<220>

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<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1294)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1318)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1329)

<223> n equals a,t,g, or c

<400> 351

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tgctcacagt catcaattat agacccca acatgcgccc tgaagacaga atgttccata 180
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caggggagtt tatgtttgaa tttgatgaag atgagatggt ctatgtggat ctggacaaga 360
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&lt;210&gt; 352

&lt;211&gt; 3170

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3163)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 352

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&lt;210&gt; 353

&lt;211&gt; 3013

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 353

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&lt;210&gt; 354

&lt;211&gt; 1829

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1338)

&lt;223&gt; n equals a,t,g, or c

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ttaccagatg aaccggcaga tggagacggg gctgagctcc gagatcgtgc mattcaactt 1740



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<210> 355

<211> 1642

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (990)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1009)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1619)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1641)

<223> n equals a,t,g, or c

<400> 355

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ttcgttggat ggcacaagaa agctcagagc ccatgggaga tttaatttat tatcatataa 180  
gactccttgg aatgaatata tgtgttatct ttccaaatga ccttacttta ttctacttat 240  
gtatacaatt tctctgtcat aatgtcttat tttgtttttc tttttcaatt gtggaagaag 300  
gcagatcatc aaagtgtgta tgaataagtg tttagaagta caatcaagcc tgcaagtagt 360  
tattaaggtc taatattgca aatgctgagg tgacatgaga caaaggaggc aakatttctk 420  
atctaaagat acttgtattc tggctgggtg gagaagccat aaactcctaa ggaattagct 480  
caaagtaagt caacatgtgc atacatctgt tgcacccaaa tgaaagccca accctgactt 540  
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aaatctttta attttctggg cacactaagr cttaagtagk ctgaggatat cagggtggaa 660  
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tccctttctc tttctctttt cctctcttct ctttcttgat tctctgtct ctctatcatt 780  
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ctaattccac caggctggca gcttttgaaa tttctatgta aatacagtat ttgtctaagt 900  
accacactta aatacagtag ttaacgttta agcaccaca gggttggttct ctttgtactt 960  
gaatcaacaa ccattttcag ctcttagaan ggaccacca caaaactgna ctttttgact 1020  
gtagaaaaac tcaggaggra accaaataaa atgaagcaaa aagttgagag aaaaaaacc 1080  
cccaaaaacc mcaaaaytaa attatcgcta aattatcgac ccaaggaggc atggttaggc 1140  
taaggccaaa aactctgaat taaacttcca aatctaacca gctacctcta gatgtaaac 1200  
tgattttcat cttttctatc acccacatag acatgacttt tttttccaga catcttgatt 1260  
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gaactatcaa acagacaatg ataaataatg atcattttaa cttggccttt taaaaagcac 1380
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tactgacatc tatgggtgat gccatgtgat gatttcta at tggcaagtga acctcagagg 1560
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cawwtggaa tttgggctaa nt 1642

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&lt;210&gt; 356

&lt;211&gt; 2020

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 356

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gcggaacgct ggggttgaga agaacagtac ttcacttaaa gagaaagagc acaataaaga 60
accagattca agtgtgagca aagaagtaga tgacaaggat gcaccaagga ctgaggaaaa 120
caaaatacag cacaatggga attgtcagct gaatgaagaa aacctctcta ccaaaacaga 180
agcagtatag gaccgacaag tgtacctctg cactcaatgc tggaatcaaa tccaaagctt 240
ttaattctct caacaagatg taaacaggaa agaaatctag ttgagcatga agataggatc 300
taacagcttt tccagttggt agatgacttt gtggccatct tgttattgag taagaaaaata 360
aagcatggag atcatgaaaa taacagatgt taccctctct catcttctaa aatctgtgca 420
tttccatggg ggctgacaca cttgtcatgt ggtctgtag tgtttgcaa gaaccattgc 480
aaataaattg aacatcaaa atccaagttt gtactatccc taaagactgg agataagcat 540
tggaagctct tttaaaaaat gctagtact gaattttgta ttgttttact tttttttta 600
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taagtgcata gtatgtaaga agttttaaca tttacttcac aggacttggt attgtgttaa 720
attctcacta ttgtgttttc tttgtctcac tgtttaggac aatttttctt taaaatagtt 780
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ttaaatcat tgggactacc caaaagtga gcatttcttt ttaaaatttc ttgacatttc 960
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ttttttttgt ttgtttttcc tttttgtcac tgtgtacatt aaaatttttg aagatgcttt 1980
actatgtaaa aaaaaaaaaa aaaaaaaaaa aagggcggcc 2020

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&lt;210&gt; 357

&lt;211&gt; 1217

&lt;212&gt; DNA

327

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1141)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1149)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1157)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 357

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atcactgttg cctgaatatg tagttccata catgattcac ctgctagccc atgatccaga 120
ttttacaaga tcacaagatg ttgatcagct tcgtgatatc aaagagtgcc tatggttcat 180
gcttgaagtt ttaatgacaa agaatgaaaa caatagccat gcctttatga agaagatggc 240
agagaacatc aagttaacca gagatgccca gtctccagat gaatccaaga caaatgaaaa 300
actgtataca gtatgtgatg tggctctctg tgttataaat agtaaaagtg ctttgtgcaa 360
tgcagattca ccaaaggacc cagtcctccc aatgaaattt tttacacaac ctgaaaagga 420
cttctgtaac gataagagtt atatttcaga agagacaaga gtacttctgt taacaggaaa 480
gccaaagcct gctggagtac taggtgcagt aaataagcct ttatcagcaa cgggaaggaa 540
accctatgtt agaagcactg gcactgagac tgggaagcaat attaattgaa attcagagct 600
gaacccttca accggaaatc gatcaaggga acagagttca gaggcagcag aaactggagt 660
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cccagtaaag aataaggaaa ttaattctga tcaggctacc cagggcaaca tcagcagtga 780
ccgaggaaaag aaaaagaacag taacagcagc tgggtcagag aatatccaac aaaaaacaga 840
tgagaaaagta gatgaatcgg gacctccgc cccttccaaa cccaggagag gacgtcgacc 900
caagtctgaa tctcagggca atgctaccaa aaatgatgat ctaaataaac ctattaacaa 960
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cttacaagg traaaatgca ttgcaaaagg gagaaaatga aggccaaaaca gaagcaggct 1140
nccagyttnt gcaaaaanctt ggattacaat gkcctgacag aaatgactta ttcaaccaat 1200
tttgcttgaa ctaagag                                     1217

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&lt;210&gt; 358

&lt;211&gt; 1963

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 358

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atncaagctc taatacgact cactataggg gggggagcgc aagcgaggca gccatgtctt 60
atcccgcctga tgattatgag tctgaggcgg cttatgacct ctacgcttat cccagcgact 120
atgatatgca cacaggagat ccaaagcagg accttgctta tgaacgtcag tatgaacagc 180
aaacctatca ggtgatccct gaggtgatca aaaacttcac ccagtatttc cacaaaactg 240
tctcagatth gattgaccag aaagtgtatg agctacaggc cagtcgtgtc tccagtgtatg 300
tcattgacca gaaggtgtat gagatccagg acatctatga gaacagctgg accaagctga 360
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gcaatgatgc tgtcttcctg attttataca aagaattata ctacaggcac atatatgcca 480
aagtcagtg gggaccttcc ttggagcaga ggtttgaatc ctattacaac tactgcaatc 540
tcttcaacta cattcttaat gccgatggtc ctgctcccct tgaactaccc aaccagtggc 600
tctgggatat tatcgatgag ttcacttacc agtttcagtc attcagtcag taccgctgta 660
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aaggtgaccc acaagtctat gaagaacttt tcagttactc ctgccccaaag ttctgtgcgc 1320
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agcaggagtt ccgatccag cttcttgtct tcaaacacaa gatgaagaac ctctgttgga 1560
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gtttttgcta ccgtgaaacc tttacctaga tcagccatca gcctgtcaac tcagttaaca 1860
agttaaggac cgaagtgttt caagtggatc tcagtaaagg atctttggag ccagaaaaaa 1920
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1963
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<210> 359

<211> 1387

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1313)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1321)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1348)

<223> n equals a,t,g, or c

<400> 359

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tcccgctccc cactccccag cgccccgga ccgtgcagtt ctctgcagga ccaggccatg 180
gagctcgaag tccggcggggt ccgacaggcg ttcctgtccg gccggtcgcg acctctgcg 240
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accctgtgta ctcttgaact gggagggaaa agtccatggt atattgataa agattgtgac 840
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tgatcctaaa accaaggtga tgcaagaaga aatttttgga ccaattcttc caatagtgcc 1200
tgtgaaaaat gtagatgagg ccataaatgt cataaatgaa cgtgaaaagc ctctgggtctt 1260
taatgtatgt tcgcataacc ataagctcat ccaaaccgggt gattgatgag acnccattgg 1320
ngtgtcacag gcatgacgtc ttatgcantc acggtcaccc ttcccctttg gaggatgggt 1380
ccatggg                                           1387
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<210> 360

<211> 388

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (356)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<400> 360

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gatcacaagg tcaggagatc gagaccatcc tggctaacac ggtgaaactc agtctctact 120
aaaaatagaa aaaaataaac caggcgtggt ggcacggcct gtaatcctag ccacttggga 180
ggctgaggca ggagaatcgc ctgaacccag gaggcggagg ttgcagtgag ccaagatcgc 240
accactgcac tccagcctgg gtgatggagc gagactctat ctcaaaaaaa aaattgtgca 300
tgtaaaacat gaaattataa cctgtgctct ttggatacct aatgcgacat ttaagntgna 360
tttgacagtn natagnattt tggatcta 388
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<210> 361

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

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<220>

<221> misc feature

<222> (21)

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<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

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<220>  
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<220>  
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<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<220>  
<221> misc feature  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (260)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (289)  
<223> n equals a,t,g, or c

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aggagaagct gtgtacgct gccctgggac ttcnagnagg agatggccac cgccgcatcc 180  
tcctcttctc tggagaagag ctacganctg cccgatggcc aggtcatcac cattngcaat 240  
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<210> 362  
<211> 412  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (360)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (385)  
<223> n equals a,t,g, or c



<400> 362  
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cggcggaccg cccgcccgtt cccaagatcc aactacgagc tttttaactg cagcaacttt 180  
aatatacgtt attggagctg gaattaccgc ggctgctggc accagacttg ccctccaatg 240  
gatcctcgtt aaaggattta aagtggactc attccaatta cagggcctcg aaagagtcct 300  
gtattgttat ttttcgtcac tacctccccg ggctcgggagt gggtaatttg cgcgcctgcn 360  
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<210> 363

<211> 351

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (304)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (308)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<400> 363

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agggcaaaaa acgacacagt agtagcagtt cccaaagtag cgaaatcagt actaagagca 180  
aggacaaagc aacaataatt cagatacctg tgcagaattt cgaataaaat atgttggtgc 240  
cattgagaaa ctgaaactct ccgaggggaaa agncttgaa gggccattga gacctgataa 300

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351

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tgatcgaatt gcacagctnc atttgcnaac ggatttttta tccagaaata gaagaagttc 180  
aagccttgga tgacaccgaa agggtttnca ggaggttttg gttccactgg aaagaattaa 240  
aatttatgcc aagaacagaa ancaagaagt catacctttt tcttaaaaaa aaaaaaangg 300  
tttttnccttc caagngtttt gggggtttt 329

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gggacttgag cgagccagtt gccggattat tctatttccc ctccctctct cccgcccgt 120

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atctcttttc acccttctcc caccctcgct cgcgtagcca tggcggagcc gtcggcggcc 180
actcagtcctc attccatctc ctcgtcgctc ttcggagccg agccgtccgc gcccgggcgc 240
ggcgggagcc caggagcctg ccccgccctg gggacgaaga gctgcagctc ctctgtgctg 300
gtgcacgatc tgattttctg gagagatgtg aagaagactg ggtttgtctt tggcaccacg 360
ctgatcatgc tgctttccct ggcagctttc agtgtcatca gtgtggtttc ttacctcatc 420
ctggctcttc tctctgtcac catcagcttc aggatctaca agtccgtcat ccaagctgta 480
cagaagtcag aanaagggca tccattcnaa gcctacctgg acttnacatt actctgtcct 540
cagaactttc cataattact gaatgctgcc atggtgcaca tcaacagggc ctgaaaatca 600
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gnt 663

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<211> 238

<212> DNA

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<220>

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<400> 366

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tcctgtntgc cccgcgccaa agtgcccaga gccatgtcca ccccgaagt gccctgagcc 120
ctgccacca tcaaagtgtc cacagtctgc cccacctcag cagtgccagc agaaatgtcc 180
tcctgtgaca cttccccac cctgccagcc aaagtgttca ccnaagagca agtaacag 238

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gaagatcttg ganagcgtgg gtatcgaggc ggacgacgac cggctcaaca aggttatcag 180  
tgagctgaat ggaaaaaaca ttgaagacgt cattgcccag ggtattingca agcttgccag 240  
tgtaccngct gggtgggggc tgtaaccgct tctgntggnn ccaagcctct g 291

<210> 368  
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<212> DNA  
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gacatctcnc ccgtnttgaa ggaccccgnc tnccttcgcg ccgncatcgg cctcctggcg 180  
cgacanctga aggcgacca cgggggccgc atcgactaca tcgcaggcct agactnccgg 240  
agagttcctc ttttggccct ccctggtcca ggagctttgg actgggctgc gtggttaatc 300  
cgnaancggt gngaagntgn cnaggnccca attctntggg nttantgatt tcctnggagt 360  
naggggaagn tnnaggttga ggatttanga aaaaggcctt 400

<210> 369  
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<212> DNA  
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<222> (293)  
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (419)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (425)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 369

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tcaacctgga gctctacgcc tcctacgttt acctgtccat gtcttactac tttgaccgcg 120
atgatgtggc tttgaagaac ttgccaaat actttcttca ccaatctcat gaggagaggg 180
aacatgctga gaaactgatg aagctgcaga accacgaggt ggccgaatct tcttnaggat 240
atcaagaaac cagactgtga tgactgggag aacggctgaa tgcaatggaa tgngcattac 300
atthttggnaa aaaatgggga attaactact tctgggaact gnacaaactg ggcacttgcc 360
aaaaatggcc cccantttgg gggactttan ttgagaccga attacctgat agccaggtna 420
aaagncct                                     428
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&lt;210&gt; 370

&lt;211&gt; 433

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (14)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (31)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (44)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (51)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

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<400> 370  
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agcacaantc ctgaagggaac ccaaagtggc tgcttctggt ttgaatccct atgtgaagcg 180  
ttccattaaa gtgaaaagcc tanntgacat cacagcaana gagagggtnt ctcccctaca 240  
ctaccaacct gntcantttg cttgctgaaa atggtnngatt aagccgatac ccaaggagtn 300  
gtttntgnnt tttctaacat ggatgagtggt ccatcgcgga gaggtacttn cacagtgacc 360  
tntggaatct cctttagaag aagcnacact cctctgaatt agaaatgtcc tcaaggcttc 420  
ctgaggcaag gca 433

<210> 371  
<211> 538  
<212> DNA  
<213> Homo sapiens

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<400> 371

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atggccatcc ccttatgagc gggcgagtg attataggct ttcgctctaa gattaaaaat 180
gccctagccc acttcttacc acaaggcaca cctacacccc ttatcccat actagttatt 240
atcgaaacca tcagcctact cattcaacca atagccctgg ccgtacgcct aaccgctaac 300
attactgcag gccacctact catgcaccta attggaagcg ccaccctagc aatatcaacc 360
attaaccttc cctctacact tatcatcttc acaattctaa ttctactgac tatcctagaa 420
atcgctgtcg ccttaatcca agcctacgtt ttcacacttc tagttaagcc tctacctgca 480
cgacaacaca taaaaaaaaa aaaaaaaaaa ntnaaggggg gggcggggtnc ccaatccc 538
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<211> 405

<212> DNA

<213> Homo sapiens

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<222> (5)

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 tgaagcccaa gtacaaagga cggngcacca tcaaccgctc caaggccagc acaaaccag 180  
 ntcgagtga gggagcanga ggcaaaaaca tgagggaccg ggccaccatc cggcgccctga 240  
 ntatgtatag gcaaaaggag cgcaggnaca gtcgtggtaa antaattaaa cccctgcaat 300  
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 <213> Homo sapiens

<400> 373  
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 acatcaggcc cgagaagcag aagaggaagc ctgggctgcg gcggagcccc atcaagaaag 180  
 tccggaagtc tctggctctt gacattgtgg atgaggatgt gaagctgatg atgtccacac 240  
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 caggtatcaa agaagacaac agcttctccc aagcccacgt caggcctggc ctcacatcag 360  
 accctgctta ggatggggga tgtggcaggg gtgctcctgt gctcaccctc tcttggtgca 420  
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<400> 374

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cttcctcacc tccaccttct ccctgccttc tctcttctct cgtctgagcc ccagggcctt 180
ttccactttg agggaggtgc ttcgaagaat gttgcccaca cctaagtgtt agaagcctat 240
gtccgttcat ccctgagagg tctgaaagaa taaaaataaa ttctaaaaaa aaaaaaaaaa 300
aactcgaggg ggggccccgg acccaatttg ccctataggg agnccgattac aattcactgc 360
cgcgttttac aacgtnnnga ctggaaaaac ccn 393
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<220>  
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<220>  
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<222> (576)

<223> n equals a,t,g, or c

<400> 375

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cctcaacacc acctnctcg accccgccgg aggaggagac cccattctat accaacacct 180
attctgattt ttcggacacc ctgaaggnaa tattcttctc ctaccaggct tcggaataat 240
ctcccatatt gtaacttact actccgaaa aaaagaacca tttggataca taggtatgga 300
ctgagctatg atatcaattg gnttcctagg gnttatcgtg agagcacacc atatatttac 360
agtaggaata gacgnagaca cangagcata ttccacctgc gntaccataa tcatngntat 420
cccaaacgg ggncaaagna attaagctgg actaggcaca ntncaaggg aagcaataat 480
gaaaanggac tgctgnaaga gnttctgagc cctaaggaat caactttcnt ttcaaccgga 540
aggggggccg aatngggaat gggattaacc aaactnaata attggaa 587
```

<210> 376

<211> 461

<212> DNA

<213> Homo sapiens

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<222> (38)

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<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (209)

<223> n equals a,t,g, or c

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<220>  
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<223> n equals a,t,g, or c

<220>  
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ctagantag tagntcccc gccctgcagg aattcggcac gaggtgaaaa ctaccacctaa 120  
aagccaaaat gggaaaggaa aagactcata tcaacattgt cgtcattgga cacgtagatt 180  
cgggcaagtc caccactact ggccatctna cctataantn cgggtggcatc gacaaaagan 240  
ccattgaaaa atttgagaag gaggtgctg agatgggaaa gggctccttc aagtatgcct 300  
gggtcttgga taantgaaa gctgagcgtg ancgtggtat caccattgat atctccttgt 360  
ggaaatttga gaccagcaag tactatgtga ctatcattga tgccccagga cacagagact 420  
ttatcaaaan catgattaca gggacatctc aggctgactg t 461

<210> 377  
<211> 517  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<222> (484)  
<223> n equals a,t,g, or c

<220>  
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<222> (488)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (508)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (515)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (517)  
<223> n equals a,t,g, or c

<400> 377  
gaataggaat tacaaggcca gacttagtgg ccttggtgtca taggagccat ggtgtttaat 60  
atcagacttt gttttaacaa ttgaaagccc accgaagggtg cactaaagca agcccttgat 120  
ttattttttg agtcaaactt cttgtggtgt tttgcgggga tagtgcttat tgaattttgg 180  
gtttctttga aataatcact gtttgtttcc cctttgtagc tgggaacttc tggggttaga 240  
cgttgctgct atcttcagtt ncacagaccc aaccagttac gatggttttg gaccatttat 300  
gccgggattc gacatcattc cctataatga tctgcccgcg ctggagggtat ttcactagcg 360  
tcatagtgtc cagctcattg ggaatagaaa ttaaagctgt tgaatatatg aattaaaagt 420  
cattatatga cagtaatgca aatttatctc acttaaggta accacgattc agacttggtc 480  
ttantacnat caattagttt ccaaccnnga gaaantn 517

<210> 378  
<211> 302  
<212> DNA  
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (56)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

354

<222> (61)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (137)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (167)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (191)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (210)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (242)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (245)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (293)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (296)  
<223> n equals a,t,g, or c

<400> 378  
naccatacaa aagggaacaa aagcatggag catccaccgc ggtggcggcc gctctngaac 60  
nagtggatcc cccgggctgc aggaattcgg cacgagcgca ggccctgaaa tgcagactgg 120  
ccgaaataac ttgtcntcc ggcggaaccc agctgaccct cagcgcnttc cctccaaccc 180  
ttcccaccgt ntccagtgtg cagcaggctn cgagcaaagt gaacacaacg tgtgccaaga 240  
cntanacgag tgcactgcag ggacgcacaa ctgtagagca gaccaagtgt gcntcnattt 300  
ac 302

<210> 379  
<211> 491  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (3)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (8)  
<223> n equals a,t,g, or c

<220>  
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<222> (10)  
<223> n equals a,t,g, or c

<220>  
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<222> (15)  
<223> n equals a,t,g, or c

<220>  
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<222> (36)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (105)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (115)  
<223> n equals a,t,g, or c

<220>  
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<222> (128)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (206)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (214)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (233)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (284)  
<223> n equals a,t,g, or c

<220>  
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<222> (288)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (313)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (318)  
<223> n equals a,t,g, or c

<220>  
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<222> (346)  
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<220>  
<221> misc feature  
<222> (352)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (426)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (433)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature



<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (464)

<223> n equals a,t,g, or c

<400> 379

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tccgatttcc tctccgcttg caacctccgg gaccatcttc tcggncatct cctgnttctg 120
ggacctgnca ccaccgtttt tgtggttagc tccttcttgc caaccaacca tgagctccca 180
gattcgtcag aattattcca ccgacntgga ggcnacgctc aacagcctgg tcnatttgta 240
cctgcatgcc tcctacacct acctctctct gggtctctat ttcnaccncg atgatttggc 300
tctggaaagc gtnagccnct tcttccacga aactggccga ggagancgag anggctacga 360
acgtctcctg aatatgcaaa accagcgtgg gcggccgcgc tctcttccag gaagtcaaca 420
agcccnctta aanataattg gggttaaaac cccaaaancc ntgnaaactt gccattgccc 480
tgaaaataaaa a 491
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<210> 380

<211> 270

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

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<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (87)  
<223> n equals a,t,g, or c

<220>  
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<222> (107)  
<223> n equals a,t,g, or c

<220>  
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<222> (108)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (119)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (138)  
<223> n equals a,t,g, or c

<220>  
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<222> (182)  
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<220>  
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<222> (199)  
<223> n equals a,t,g, or c

<220>  
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<222> (202)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (207)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (233)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<400> 380

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aatncggcac gagtnactca aaagcatcta ctccnaatgg ttatgataat ggcattatatt 60
ggnccacttg gaaaaccggt tggatncca tgaagaaaac cactatnnag ataattccnt 120
tcaacaggct cacaattnga gaaggacagc aacaccacct agggggagcc aaacaggctg 180
gngacgttta aaagaccgnt tncaaangag gttnacttat tntaaagggn ctnatatatg 240
aagcagagga ggtgataatt agtttntcct 270
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<210> 381

<211> 160

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

360

&lt;222&gt; (139)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (141)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (154)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (158)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 381

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gaagaaatca accttgctcc tgacagctca tccgtggttg tatcangact tatggtggcc 60
accaaataatg aagtgaagtgt ctatgctctt aaggacactt tgacaagcag accagctcag 120
ggagttgtca ccactntgna naatgtcagc ccancaanaa                      160

```

&lt;210&gt; 382

&lt;211&gt; 617

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (501)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (562)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 382

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ggtcccgtt cacagacgac gacaagaccg accacctgtc ctgggagtgg aatctcacca 60
tcaagaagga ctggaaggac tgagcccagc cagaggcggg cagggcagac tgacggacgg 120
acgacggaca ggcggatgtg tccccccag cccctcccct ccccatacca aagtgtgtac 180
aggccctccg tgccctccc accctggtcc gcctccctgg cctggctcaa ccgagtgcct 240
ccgaccccc tcctcagccc tccccaccc acaggcccag cctcctcggg ctctgtcttc 300
gttctgtctt ctgctgtgtc tgtgggggag agaggccgca gccaggcctc tgcctgcctt 360
ctgtgcccc caggttctat ctccccgtca caccgaggc ctggcttcag gagggagcgg 420
agcagcattc tccaggcccc cgttggttgc cctggacgtg tgcgtctgtg ttcgggtgga 480
ctgggggtgtg ggatgcacgg nctgtggggg ccggccgtct cagcccgtgt cctgcagccc 540
ttgcgtgtcg gccgctaaca tntgtacat ggggtgacgg gggctatagc ttactctggt 600
gatacatggg ctccgcc                      617

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<210> 383  
<211> 307  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (148)  
<223> n equals a,t,g, or c

<400> 383  
gcggagcgtg cgggccctgc tctgcaccct gcgcgcgggc ccgttaccgc ccgcgccctg 60  
cccgccgagg ccctggcagc tgggggtggg cgcgcgtccgt acgctgcgca ctggaccgcg 120  
tctgctctcg gtgcgtaaat tcacaganaa acacgaatgg gttaacaaca gaaaatggca 180  
ttggaacagt gggaatccag caattttgca caggaagcgt tgggaaattt tgtttattgt 240  
tatctccctg aaatttggga caaaatttga aacaaacaaa ttaattttgg gttgcttttg 300  
gagggtt 307

<210> 384  
<211> 424  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (290)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (384)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (385)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (392)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (394)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (407)

<223> n equals a,t,g, or c

<400> 384

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ggcctcactc ccgagctcta ctgactccca acagagcgcc caagaagaaa atggccataa 60
gtggagtccc tgtgctagga tttttcatca tagctgtgct gatgagcgct caggaatcat 120
gggctatcaa agaagaacat gtgatcatcc aggccgagtt ctatctgaat cctgaccaat 180
caggcgagtt tatgtttgac tttgatggtg atgagatttt ccatgtggat atggcaaaga 240
aggagacggt ctggcggcct gaagaatttg gacgatttgc cagctttgan gctcaagggtg 300
cattggccaa catagctgtg gacaaagcca acctggaaat catgacaaag cgctccaact 360
atactccgat caccaatgta cctnnagagg tnanctgtgc tcacgancag ccctgtggaa 420
ctga 424
```

<210> 385

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<400> 385

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aggnaagatg aaaataaagt agatgggatg aatgccccaa aaggccaaac tgggaactct 60
agccgtgggtc caggagacgg agggaaacaga gaccactgga aggagtcaga taggaaagat 120
ggcaaaaagg atcaagactc cagatctgca cctgagccaa agaaacctga ggaaaatcca 180
gcttctaagt tcagttctgc aagcaagtat gctgctctct ctgttgatgg tgaagatgaa 240
aatgaggggag aagattatgc cgaatagacc tctacatcct gtgctttnt cctagtttct 300
ctccaccctg ggaacattcg agagcaaadc aaaacctcta tccagacaag ac 352
```

<210> 386

<211> 674

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (504)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (511)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (528)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (548)  
<223> n equals a,t,g, or c

<220>  
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<222> (555)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (569)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (589)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (617)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (631)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (666)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (672)  
<223> n equals a,t,g, or c

<400> 386  
gattctccct gggtagatcg acttcactgc agaccaggtg gacctgactt ctgctctgac 60

```
caagaaaatc actcttaaga cccactggt ttcctctccc atggacacag tcacagaggc 120
tgggatggcc atagcaatgg cgcttacagg cggatttggc ttcattccacc acaactgtac 180
acctgaattc caggccaatg aagttcggaa agtgaagaaa tatgaacagg gattcatcac 240
agaccctgtg gtcctcagcc ccaaggatcg cgtgcgggat gtttttgagg ccaaggcccg 300
gcatggtttc tgcggtatcc caatcacaga cacaggccgg atggggagcc gcttggtggg 360
catcatctcc tccagggaca ttgattttct caaagaggag gaacatgact gnttcttgga 420
agagataatg acaaagaggg aagacttggg ggtagcccct gcaggcatca cactgaagga 480
ggcaaatgaa attctgcagc gcancaagaa nggaaagggtg cccattgnaa atgagatgat 540
gagcttnggg gcatnatggc cggacaganc tgaagaagaa tcgggctanc cactagcttc 600
aaagatgccca gaacaantgt ggggtgggcaa ncatgggact atgggtgccca gttaggtggc 660
ttgttnccaa cntg 674
```

<210> 387

<211> 309

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (188)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c



365

<220>  
<221> misc feature  
<222> (291)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (304)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (309)  
<223> n equals a,t,g, or c

<400> 387  
tggaaattcc ccgnagacac tatnntaagg tacgcctgca ggtaccggtc cggaattccc 60  
gggtcgaccc acgcgtccgc ccacgcgtcc ggggcggctg agacgccgcc tgcctggcac 120  
ctaggagcgc agcggagccc cgacaccgcc gccgccgcca tggagtccga gaccgaaccc 180  
gagcccgnca cgctcctggn gaagagcccc aaccagcgcc accgcgactt ggagctgagt 240  
ggcgaccgcg gctggagtgt gggccacctc aaggcccacc tgagccgngn ntaccccgag 300  
cgtnccgcn 309

<210> 388  
<211> 408  
<212> DNA  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (403)  
<223> n equals a,t,g, or c

<400> 388  
gcgagagcgc caganagaga agatcggggg gctgaaatcc atcttcatcc taccgctccg 60  
cccgtgttgg tggaatgagc gttgcatgtg tcttgaagag aaaagcagtg ctttggcagg 120  
actctttcag ccccccactg aaacatcacc ctcaagaacc agctaattccc aacatgcctg 180  
ttgttttgac atctggaaca gggtcgcaag cgcancaaa ccagctgcaa atcaggctct 240  
tgcagctggg actcactcca gccctgtccc aggatctata ggagttgag gccgttccca 300  
ggacgacgct atggtggact anttcttttc agaggcagca ttggtgagca gcttgggggg 360  
aagaaggaan tggaagaagg cnggnattat taataagcaa acntcgat 408

<210> 389  
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<212> DNA  
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<223> n equals a,t,g, or c

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<220>  
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gacgaagat gaactgattg cccgcctccg ctgcgtgggt gaacaactga accgtgatgt 120  
cagcctgacg gggacgaaaag aagaactggc gctccgtgtg gcagagctga aagaggagct 180  
tgatgacacg aggcctaagc ttggcactgg ccgtcgtttt acaacgtcgt gactgggaaa 240  
accctggcgt taccctaactt aatcgccctg cagcacatcc ccctttcggc agctggcgta 300  
atagcgaaga ggcccgacc gatcgccctt cccaacagtt gcgnagcctg aatggcgaaat 360  
ggcgctgat gcggtatttt ctccctacgc atctgtgcgg tatttcacac cgcataatggt 420  
gcactctcag tacaatctgc tctgatgccg catagttaag ccagccncga caccgggcaa 480  
cacccgntga cgcgcccctga cgggcttgct gcttccggca tncgcttaca gacaagctgt 540

368

gaccgttccg gnagctgcat gtgtcaaaag gttttnaccg tatnaccgaa acgcgcnaaa 600  
c 601

<210> 390

<211> 407

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<220>

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<222> (390)

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<220>

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<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<400> 390

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tttgggcac ttcacgacca ttctgctcat catcatccca gtgttggtcg tccaggccca 120  
gcgatagatc aggaggcatc attgaggcca ggagctctgc ccgtgacctg tatcccacgt 180  
actctatctt ccattcctcg ccctgcccc agaggccagg agctctgccc ttgacctgta 240  
ttccacttac tccaccttcc attcctcgcc ctgtccccc agccgagtcc tgcacanc 300  
ctttatcctc acacgctttt ctacaatggc attcaataaa gtgtatatgt ttctggtgaa 360  
aaaaaaaaa aaaaaaaaaa aaanaaaann annaaaaaaaa aaaaaaa 407

<210> 391

<211> 566

<212> DNA

<213> Homo sapiens

<220>  
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<400> 391  
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gcagtgcagc aaggagcagc atatatgccg gaggggtcagc ccatggggag ctttgtgttg 120  
gatggtcagc aacacatggg gatccggcct gcagggttgc agagcatgcc aggggactac 180  
gtttctcagg gtggtcctat gggaatgagt atggcacagc caagttacac tcctccccag 240  
atgaccccac accctactca attaagacat ggacccccaa tgcattcata ttgccaagc 300  
catccccacc acccagccat gatgatgcac ggaggacccc ctaccacccc tggaatgact 360  
atgtcagcac agagccccac aatgttaaata tctgtagatc ccaatgttg cggacaggtt 420  
atggacattc atgcccaata gtntaagggg actcaaggga aaagggaaca cacgcaaaaa 480  
ctattttaag acttctggaa ctttgaccag gtgttgacac ttaatatgaa attccagaca 540  
gctgtgatta tttttaactt tggcat 566

<210> 392  
<211> 425  
<212> DNA  
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<220>  
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<222> (283)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<220>  
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370

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

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<222> (406)

<223> n equals a,t,g, or c

<400> 392

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atcacactga cctggcagcg ggatggggag gaccagacc aggacacgga gctcgtggag 120
accaggcctg caggggatgg aaccttccag aagtggggcg ctgtggtggt gccttctgga 180
gaggagcaga gatacacctg ccatgtgcag catgagggtc tgcccaagcc cctcaccctg 240
agatgggagc tgtcttccca gcccaccatc cccatcgtgg gntcattgc tggcctgggt 300
ctccttggac tgtgatcact ggagctgtgg tccctgccct gatttngtag gaagnaaan 360
ctcnntattg aaaaaggagg gattttcact cctgtctgct aagcanttga caattgcccc 420
aaggg                                           425
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<210> 393

<211> 443

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (50)

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<220>

<221> misc feature

<222> (355)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>  
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<400> 393  
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ccactcagca tcttgctctg ggcagattca gactgagccc gccactccac ggtgatgggg 120  
ttctggaggc tgggggtgctc catgtggcag gtgtagacgt ctccatgctg gggagtcatt 180  
tccagcatca ccaggatctg gaagggtccag tcaccgttcc taataagggg ggtggacaca 240  
acgccggttg tctcctcctg gtcattccga atctgcccag agcaagatgc tgagtggcat 300  
tgagggttc gtgctggggg catcttcctc gggctggggt tattatccat cacangatca 360  
gaaanggtc ctgcactgac tcctnagact attttaactg ggattggtat cacttttcng 420  
taagcctgct tgtccctgcc can 443

<210> 394  
<211> 189  
<212> DNA  
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<222> (182)  
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<400> 394  
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ctggnccagat cagcnagggn tcgnccttgg ccccgggccc tccccaagtn cctgccccag 120  
gttccagccc ctgcccntgn tnccagcnat ggtatcagct ctggcccagg ccccgagccc 180  
tntgcccag 189

<210> 395  
<211> 349  
<212> DNA  
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<220>  
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<220>  
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gcagggtggac ttcaaggact tctaccgggc catagcagtg aatgatgtgc gccaggctgc 120  
ccgcagcgcc gccagctaca tgctcttcga cccaaggac agcgtcatgc agcagaacct 180  
ggtgtattac cggttccacc gggctcgctg gggcctggaa gaggaggact tccagccccg 240  
ggaggaggcc atgctctacc acaaccagac cgccgagctg cgggantgct ggagttcanc 300  
cacatgtacc tgcanttaag atgatgaaat tggancnggg aaggaaaca 349

<210> 396  
<211> 304  
<212> DNA  
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<222> (215)  
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<220>  
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<222> (260)

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<222> (263)

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<400> 396

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gcgatcgag ccaagcacia taaaactaca gccaggtcc tgatccggtt ccccatgcag 120
aggaatgggg gtggatcccc aagtctgtga caccagaacg cattgctgag aactttaagg 180
tcttttgact ttgaactgag cagccaggat atgancacct tactcagcta caacangant 240
gaagggtcttg ttgctgtttn agntgttctt cccacaagga ttacccttca taaaaatttt 300
ggaa                                     304
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<210> 397

<211> 349

<212> DNA

<213> Homo sapiens

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<222> (318)  
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<220>  
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<400> 397  
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agggcactga gcccgaggcg atgctccagg tgctggggcc caagccggct ctgcctgcag 120  
gtaccganga caccgccaag gaggatgcgg ccaaccgcaa nctggccaag ctctacaagg 180  
tctccaatgg tgcattggacc atgtccgtct ccctcctggc tgatgaaaac ccttccgcca 240  
aggggcctga aattcagaag actgcttcat cctggaccac gcaanatngg aaatctttgt 300  
cttgaaaggc aacangcnac acgaagaaaa gaaagggtgcc tccanacca 349

<210> 398  
<211> 638  
<212> DNA  
<213> Homo sapiens

<220>  
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<220>  
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<222> (563)  
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<220>  
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<222> (578)  
<223> n equals a,t,g, or c

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<222> (624)  
<223> n equals a,t,g, or c

<220>  
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<222> (636)  
<223> n equals a,t,g, or c

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gggcccgggac ttcgtaagga gagacctggc cataagggac acctttgtga atgcctctcg 180  
gaccctgtac agcagcagcc ccagagtcct aagcaacaac agtgacgccca acttgagct 240  
catcaacacc tgggtggcca agaacaccaa caacaagatc agccggctgc tagacagtct 300  
gncctccgat acccgccctg tcctcctcaa tgctatccta cctgagtgc aagtggaaga 360  
caacatttga tcccaagaaa ccagaatgga nccctttcac ttcaaaaact cagttataaa 420  
gtgcccattga tgaatagcag aagtnccctgt gggccatttc attgaccaac tttgaagcca 480  
aggtggggag tgcantctcc acaatctgag ttgngatct ggnccccaga cctgaaacan 540  
cgnttttaaa catgggacan ggnctagccc ttctgttnaa aggcacatg gggaaactgg 600  
gatgtccaag tccagccaaa agtngttact tcccgnat 638

<210> 399  
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<212> DNA  
<213> Homo sapiens

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<222> (67)

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<222> (100)

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<222> (115)

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<222> (191)

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<222> (197)

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<222> (224)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (231)

<223> n equals a,t,g, or c

<400> 399

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tcggggntgg ggataacacc aaaacaaacc tggagagcan cctctcttac ccanggact 120  
tcaccnatgt ccaccaagcc ctgaagggen tcacaaccaa aggtgtcacc tcagtctctc 180

aaatcttcca ntgcccngaa ctggccataa gggacccttt gtgnaatgcc nctcggaccc 240  
tgttc 245

<210> 400

<211> 364

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<400> 400

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gggctagaca cgggagaata cttttgcacc cacaatgact cccgtggact ggagaccgat 120  
gagcggaaac ggctctacat ctttgtgcca gaagctacat ctgcaaaacc accattgggg 180  
acagggaggt ggatctgat gcctactatg tctacagact ccaggggtgag cccctttct 240  
ggcctgatgc tcagcagagt gtcatccat caacgtctct gtggaacgcn tnnaggactg 300  
tggccgcca ggtggagaac atcacctca ngtgcattgt ggatcgggna tgaggtgtca 360  
attt 364

<210> 401

<211> 409

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

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<220>  
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 <222> (405)  
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 ttnagagccg gactaggacc agggccctgg gcctntccac actcccatg gagaagctgg 60  
 cggcctctac agagcccca gggcctcggc cggtcctggg ccgtgagagt gtccagggtgc 120  
 ccgatgacca agactttcgc agcttccggc cagacgggct acctcatcca gagcacaggg 180  
 cccaagagct gcgtcatcac ctacctggcc cagggtggacc ccaaaggctc cttaccaag 240  
 tgggtggtga ataaatcttc tcagttcctg gctcccaagg ccatgaagaa gatgtacaag 300  
 gcgtgcctca agtaccgccg gtggaaacag aagcacctgc ctcacttcaa gccgtggctg 360  
 caccgcggagc agagcccgnt gccgagcctg ncgctgcgga gctgncggg 409

<210> 402  
 <211> 437  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (432)  
 <223> n equals a,t,g, or c

<400> 402  
 cccaagcagc tggaggctct gtgtgtggga gcagcgactg gacccagagc catgtggctg 60  
 tgccctcttg ccctcaacct catcttgatg gcagcctctg gtgctgtgtg cgaagtgaag 120  
 gacgtttgtg ttggaagccc tggatatccc ggcactcctg gatccacagg cctgccaggc 180  
 agggacggga gagatggtgt caaaggagac cctggccctc caggcccatc gggccacct 240  
 ggagaaatgc catgtcctcc tggaaatgat gggctgcctg gagccctgg tatccctgga 300  
 gagtgtggag agaaggggga gcctggcgag agggggcctc cagggcttc agctcatcta 360  
 gatgaggagc tccaagccac actccacgac tttagacatc aaatcctgca gacaagggga 420  
 gccctcagtc tncaggg 437

<210> 403



<211> 203  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (143)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (152)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (161)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (163)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (182)  
<223> n equals a,t,g, or c

<400> 403  
cacaacacag gtgtcgtgaa aactaccctt aaaagccaaa atgggaaagg aaaagactca 60  
tatcaacatt gtcgtcattg gacacgtaaa ttcgggcaag tccaccacta ctggccatct 120  
tatctatata tgcggtggct tcnacaaaaa ancctttgaa nantttgaaa aggaggctgc 180  
tnatatggga aagggtcct cca 203

<210> 404  
<211> 383  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>

<221> misc feature  
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (351)  
<223> n equals a,t,g, or c

<220>  
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<222> (368)  
<223> n equals a,t,g, or c

<400> 404  
ggaccccgcgt gagtacaacc tgcgctcgcg caccgtgctg tgcgggacct gcgggcagcc 60  
tgccgacaag gcatctgccg gcggctcagg agcccagagc ccccagaact gcagcatcat 120  
gtaatctggg acctgccagg caggggtggg ggtggaggct tcctgcgtcc tcctcacctc 180  
atgccacccc cctgccctgc acgtcatggg agggggcttg aagccaanga aaaataacct 240  
tttggttttt ttcttctgta tntttttttc taagagaant attttctaca gtggttttna 300  
tantgaanga aaaacacaag caaaaaaaaa aaaaaagggc ggccgctcta naggatccaa 360  
agcttacnta cgcgtgcatg cga 383

<210> 405  
<211> 433  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (23)

<223> n equals a,t,g, or c

<220>

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<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (172)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (208)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (268)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (384)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 405

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gaacttggtgc gagcctcaag tcaactccaca gacctcatgg aagccatggc catgggcagc 120
gtggaggcctt cttattaagt gtttagcagc agctttgata gttctgacgg anntgggcag 180
gtctgctcac caggtggcca gataccgncc acgtgcccc atcattgctg tggaccggg 240
aatccccaga cagttcgtca aggccanct tttaccgtgg gcattcttcc ctgtgctntt 300
gcaaggaccc cattccagga ggcttggtt ttaggacgtg ggacctccg gtggaacttt 360
tgccatgatt tttgggaaag gccnagttt tttcaagaag ggganntggt caattngttt 420
gaccgttngg gcc 433
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<210> 406

<211> 429

<212> DNA

<213> Homo sapiens

<220>

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<222> (391)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 406

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tcaagtagat ttcttgatc atgttccct cacaacacac aactttgctc ggaagacgtt 120
cctgaagcct gccttctgtg acatctgtca gaaattcctg ctcaatggat ttcgatgtca 180
gacttggtggc tacaaatttc atgagcactg tagcaccaaa gtacctacta tgtgtgtgga 240
```

```
ctggagtaac atcagacaac tcttattgtt tccaaattcc actattggtg atagtggagt 300
cccagcacta ccttctttga ctatgcgtcg tatgcgagag tctgttccaa ggatgcctgt 360
aagttctcag cacagatatt ctacacctca ngccttcanc tttaanacct ccagtcacct 420
atctgnang                                     429
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<210> 407

<211> 270

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

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<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<220>

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<222> (146)

<223> n equals a,t,g, or c

<220>

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<222> (148)

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<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (215)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (220)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (221)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (251)  
<223> n equals a,t,g, or c

<400> 407  
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ccagggtcac caangtcctg ggcaggaccg gttctcaggg acagtgcacg caggtaatcg 120  
ggtgggggca ttngccgac tgccgncnac ctaaaccctg atgtgacctc taccctgccc 180  
taaccctgc cagccggaat ccggganccg attcncattn natcacaggg ttctgatggt 240  
tccctttaac natctgtatt ctggccccga 270

<210> 408  
<211> 655  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (214)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (268)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (295)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (329)  
<223> n equals a,t,g, or c

<220>  
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<222> (401)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (404)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (497)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (508)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (511)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (517)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (568)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (572)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (610)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (633)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (654)  
<223> n equals a,t,g, or c

<400> 408  
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cggggggggtg tcagtacctg cgctgtggag tgaagtgaac cggtatggcc agaacggcga 120  
cttcacgcgc gctctcaaga ccgtcaataa gatactacag atcaacaaag atgacgtaac 180  
tgccctgcat tgtaaagtgg tatgccttat ccanaatgga agtttcaagg aagctttgaa 240  
tgtcatcaat actcacacca aagtgttngc caataactct ctctcctttg aaaangcata 300

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ttgcgaatac aggctgaaac agaattgana atgccttgaa aaacaataga aagtgtccac 360
ccagcagaca gacaaactga aaggaacttt atggacaatt nttnttccgt ttgggaaagc 420
ttttaataaa tgcttaacaa tgttttaaaa tttcttccga aactccccca ataattttaa 480
taaggaaaag gaaaacnacc tttccccntt nttgcantcc aaacattgga aaattggtcc 540
caaaaactgg cccccaaaag gcattaantt tntaaacttt tttttttttt ggccggccct 600
taaccccctn aatccccaaa ttaaattttg ccncccttcc caaaaattgg gagna      655
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<210> 409

<211> 376

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (246)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (250)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (259)

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<220>

<221> misc feature

<222> (273)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (361)

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<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c



<220>  
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<222> (367)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (372)  
<223> n equals a,t,g, or c

<400> 409  
gcagctggag gctctgtgtg tgggtcgctg atttcttgga gcctgaaaag aaggtaactg 60  
ggcatatgag ggacagatgg agtgagtcag tgacaggagc agcgactgga cccagagcca 120  
tgtggctgtg ccctctggcc ctcaacctca tcttgatggc agcctctggt gctgcgtgcg 180  
aagtgaagga cgtttgtgtt ggaagccctg gtatccccgg cantcctgga tcccacggcc 240  
tgccangcan ggaaggkana aatggtgtca aangagacc tgccctcca nggcccattg 300  
gtccgccttg agaaacaaca tgcctcctg ggaataatgg gctgcttgag cccctggtgt 360  
nccnganaaa cnttga 376

<210> 410  
<211> 651  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (582)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (624)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (643)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (646)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (650)  
<223> n equals a,t,g, or c

<400> 410

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gaacctgatg gggagatatg gggacaataa ccacagtcag ggcgttaact ggttccactg 60
gaagggccac gaacactcaa tccagtttgc tgagatgaag ctgagaccaa gcaacttcag 120
aaatcttgaa ggcagggcga aacgggcata aattccaggg accactgggt gagagaggaa 180
taaggcccag agcgaggaaa ggattttacc aaagcatcaa tacaaccagc ccaaccatcg 240
gtccacacct ggcatttggt tgagagtcaa agctgaccat ggatccctgg ggccaacggc 300
aacagcatgg gcctcacctc ctctgtgatt tctttctttg caccaaagac atcagtctcc 360
aacatgtttc tgttttggtg gttgattcag caaaaatctc cagtgacaac atcgcaatag 420
ttttttactt ctcttaggtg gctctgggaa tgggagaagg gtaggatgtc aggggtagtt 480
tgggttagaa ccagccgtat ttacatgaac tggataatta atggcattat tttggtagca 540
aagattaaag ggcatttga agccatccct tttttacatt tnatccacag aaaccagaaa 600
agcaatactg gttccattta aggntatgat taatatatta atntantaan g 651
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<210> 411

<211> 392

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (199)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (220)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (355)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>  
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<222> (391)  
<223> n equals a,t,g, or c

<400> 411  
ggttatccgc gatgcgtttc ctggcagcta cattcctgct cctggcgctc agcaccgctg 60  
cccaggccga accggtgcag ttcaaggact gcggttctgt ggatggagtt ataaaggaag 120  
tgaatgtgag cccatgcccc acccaaccct gccagctgag caaaggacag tcttacagcg 180  
tcaatgtcac cttcaccanc aatattcaan ctaaaagcan caaggccgtg gtgcatggca 240  
tcctgatggg cgtcccagtt ccctttccca ttcctgagcc tgatggttgt aagagtggaa 300  
ttaactgccc tatccaaaaa gacaagacct atagctacct gaataaacta ccanngaaaa 360  
gcgaatatcc ctctataaaa ctggnngngg na 392

<210> 412  
<211> 645  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (443)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (567)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (611)  
<223> n equals a,t,g, or c

<400> 412

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cggatgacga gaagtatctg tggaaggacc tgaccctgga ccaggcctat agctatgctg 120
tggaagaatgc caaggacatc atcgctgtg gctttgacat caacaagact ttcataattct 180
ctgacctgga ctacatgggg atgagctcag gtttctacaa aaatgtggtg aagattcaaa 240
agcatgttac cttcaaccaa gtgaaaggca ttttcggctt cactgacagc gactgcattg 300
ggaagatcag ttttcctgcc atccaggctg ctccctcctt cagcaactca ttcccacaga 360
tcttccgaga caggacggat atccagtgcc ttatcccatg tgccattgac caggatcctt 420
actttagaat gacaaggggac gtngcccca ggatcggcta tcctaaacca gccctgntga 480
ctccaccttc ttcccagccc tgcanggcgc ccagaccaa atgagtgcc ggcaccccaa 540
ctcctccatc ttctnaccg acacggncaa gcagatcaaa accaaggtca ataagcatgc 600
gttttctgga nggagagaca ccatcgagga gcacaggcag tttgg 645
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<210> 413

<211> 540

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (186)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (374)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (385)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (386)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (396)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (408)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (417)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (443)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (445)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (461)  
<223> n equals a,t,g, or c

<220>  
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<222> (479)  
<223> n equals a,t,g, or c

<220>  
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<222> (480)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (496)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (533)  
<223> n equals a,t,g, or c

<400> 413  
ctcgnngnang gttcggagtc ccgattttct cctgctgctg tggcccggac atggcgactc 60  
ccggccctgt gattccggag tccccttga accatcgaag cctccagtca ttgaggggct 120  
gagcccactg tttacaggaa tccagagagt ttcaaggaaa agttcgttcg caagaccgc 180  
gagaanccgg tggtaacctat aggttgctg gccacggcgg ccgcccacac ctacggcctn 240  
tactccttcc accgggggca acagccagcg ctcttcagct catgatgcgc acccggtatcg 300  
ccgcccaggt ttcaagggtc gcagccatct tgctgggtct ggggtgtcat gctatgnaat 360  
tttcgaaccn taanccaggt ttggnnttga aaagtncgca gaaatggntt ccaaaancca 420  
gggagcaaac aatggggcct acntngggat ttattccctc ntttcttttg aaaggcccn 480  
tttcgttgg ggaagnaatt gaacctttgt gtaatgttaa cgaaaatttt ttnaaatcc 540

<210> 414  
<211> 90  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (8)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
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<222> (66)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (79)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (88)  
<223> n equals a,t,g, or c

<400> 414  
ctcgtcgn tn cgagtttttt tttttttttt tttttttttt ttttttttaa 60  
aaaaanaaaa aaaaaaaang gggaaaang 90

<210> 415  
<211> 461  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (298)  
<223> n equals a,t,g, or c

<220>  
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gtttaataaa aatcatggaa agactcttaa tgcagactct tcttaagtgt taatagggat 180
tttttcagct tattttgggt gcagtttcca atttttaaaa atgttgagg taatctttcc 240
caccttccca aaccttaatt ctggtagat ggcattagt ttggaaccaa tgctttcntc 300
atgtcttcaa ttctttggta tatggcnttc ctttncagat gtatttaaac aaacaaaaac 360
cctttaaaaa aaaaaaaaaa aaccgggggg ggggggcccg gnaaccatt cccccaaaa 420
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anctctagca tcaccagtat tagaggcacc ggctngccca gtggacacat gtttaacggg 180  
ccgcgggtac cctaaccgtg gcaaaggta gcataatcan tggtccttaa ttangggacc 240  
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gtgccggttag tggatttggt ttnggccggt ggagtgggtg tggntttggn cttggtggcg 120  
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tatacgattg naaggnttat gtcactaaag atttttattc tgattntttc ataatacaaag 120  
gtcatatgag actggtagag acaagntttg tagtgaagta nngtngcant aatttctgta 180  
cctgatcaag ttattgcag cctttctttt cctatttctn ttntttangg gttantntna 240  
acaaatggca atgagtagaa aagttaacat gaagatttta gaaggagaga acttacatga 300  
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cagagagagg cagacttcgg ggaagccctg actgtncaga gctaaggaca cagtggagat 180  
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 gctccatcct gaggctccac ttggtctgtg agatgctaga actccctttc aacagaattc 180  
 acttggtggct attgggactg gaggcaccct tagccacttc attcctctga tgggccctga 240  
 ctcttcccca taatcactga ccagccttga cactccnttg caaattttcc agcactgaac 300  
 ccaggnagca ntcttagcct tggcttcgac atgagatgga gcctcttatt nccatctggg 360  
 ccagttcctt aattacagat ggnagnatta gggtttgggt agaagnccctc aannnaaaaa 420  
 agggctgctt ctggtcctna gttttttttg naaccagtgc attaggtgga atctggcaga 480  
 tatnnagagn gagatttggt gagcttat 508

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<220>  
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tcttgagagcc tgaaaagaag cnggagcnnn gactggtacc cananccatg tggctgtgcc 120  
ctgctgggcc ttnnaaccnca tcttgtatng gcagnttctg gtgctgcgtg cgaatnnaag 180  
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antacaccca gatggcctga agcaactgaa gatccacaaa agaagtgaaa atagccagtt 120  
cctgccttaa ctgatgacat tccaccattg tgaatttggt cctgccccac cctaactgat 180  
caattgacct tgtggacaat acaccttccc cacccttgag aagggtgctt gtaatatnt 240  
nccacccac cccacgggcc gaacccnngg naccnttga ggaaggntt ttggtaatat 300  
tgctntgagg gnattggagg aatgtggntt tngtaaagnt tgcnagcncg ttgggnccac 360  
naanaattgg gttggttaaa t 381

<210> 423  
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<212> DNA  
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<400> 423  
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tttttaggga gaaaaataaa tatatgctgt agtggccaca aataggccta tgatttanct 120  
ggcaggccag gttttctcaa gagcaaaatc accctctggc cccttggcag gtaaggcctc 180  
ccggtcagca ttatcctgcc agacctcggg gaggatacct gggagacaga agcctctgca 240  
cctactgtgc agaactctcc acttcccaa ccctcccag gtgggcaggg cggaggggagc 300  
ctcagcctcc ttagactgac ccctcaggcc cctaggctgg ggggttgtaa ataacagcag 360  
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<222> (332)

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<220>

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<222> (422)

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<400> 424

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gggagtcacc caggaccgg gcagtcgcct ttccccagct cctaaggctc cgggccttcc 120
ctgctgaaac agcaagacca gtgggttgcc gtgggaggcc tgggcttcaa accacctctg 180
cnatcacctg gctgtnggtc cccaagcagg acatacacac agtccctctc tngccctcat 240
cctcctncaa gtgnaaagga aaagccaagt taaaanggct cttgggacca tgggtancna 300
gctttttccc tnnaccctng gccttgccaa nngccagggt aaaaaaact taagttccaa 360
aacggccttt taacgccttc ctcgaaaata cttccactgg tggaccaagg gccccagcct 420
gngtnngctt gtttggttaa a 441
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<212> DNA

<213> Homo sapiens

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<222> (68)

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agtatganta ttcatTTTTg agaacattcc ctggaattgc cacataattc attaaaaaca 120  
TTTTTTtaag caacacttgg gaacagtgtt tactttaaat ccttaatggc cttaattaat 180  
tctnagattc ctgccccatc acttacagaa ccaattcact tttagagtgc taaaaggaaa 240  
cgatagccta gcttttctaaa gccacgctgt gtccctcaat tacagagggt aggaatgggt 300  
ataactctta actgtggcaa agcagagtgg aaattncaat ttcataggan taaacaactg 360  
ctgggggnat attccgtgcc caggnaaagg gaaaattttc tgggcaaata ttttgnca 419

<210> 426  
<211> 407  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (229)  
<223> n equals a,t,g, or c

<220>



<221> misc feature  
<222> (240)  
<223> n equals a,t,g, or c

<220>  
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<222> (336)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (357)  
<223> n equals a,t,g, or c

<220>  
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<222> (400)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (406)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (407)  
<223> n equals a,t,g, or c

<400> 426  
gcttactacc agacaacctt agccaaacca ttaccctaaa taaagtatag gcgatagaaa 60  
ttgaaacctg gcgcaataga tatagtaccg caagggaag atgaaaaatt ataaccaagc 120  
ataatatagc aaggactaac ccctatacct tctgcataat gaattaacta gaaataactt 180  
tgcaaggaga gccaaagcta agacccccga aaccagacga gctacctgng aaacagctgn 240  
aagagcacac cgttctatgt agcaaaatag tgggaagatt tataggttga ggcgacaaac 300  
ctaccgagcc tgggtgatagc tggttgtcca agatanaatc ttagttcact ttaaatntgc 360  
ccacagaacc ctctaaatcc ccttgtaaat ttaactgttn aaaaann 407

<210> 427  
<211> 423  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (315)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (356)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (358)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 427

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accacgcgt ccgctcaagt atagtggagaa ctcaatcttg aataacattt agaaagaatc 60
tcgctatact tgagactaga tgacaaataa atgttattca agattgagtt ctcactagtg 120
tttttttaat cctaaaaaag taatgttttg attttgtgac agtcaaaagg acgtgcaaaa 180
gtctagcctt gcccgagctt tccttacaat cagagcccct ctcaccttgt aaagtgtgaa 240
tcgcccttcc cttttgtaca gaagatgaac tgtattttgc attttgtcta cttgtaagtg 300
aatgtaacat actgncaatt ttccttggtt gaatatagaa tggnaacact acacgngnac 360
attncagag cctgggggtat attgccaatg aactttttgc aagcacactt gtaaccaa 420
gng 423
```

<210> 428

<211> 378

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<400> 428

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gcggagggtt cagnntagaa ggtgatgtca gctccagctc ccctctgtcg gtggtggggc 60
ctcaccttga agaggggaagt ctcaatatta ggctaagcta tttgggaaag ttctccccac 120
cgcccttgta cgcgtcatcc tagcccccct taggaaagga gttagggctc cagtgcctcc 180
```

415

```
agccacaccc cctgccttcc ccagcttgcc catttccctg ccccaaggcc cagagctccc 240
cccagactgg agagcaagcc cagcccagcc tcggcataga ccccttctg gtccgcccg 300
ggctcgattc ccgggattca ttcctcagcc tctgcttntc ccttttatcc caataagtta 360
ttgctactgc tgtgaagg                                     378
```

&lt;210&gt; 429

&lt;211&gt; 92

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (23)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (70)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (75)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (76)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (77)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 429

```
ggcacagtgg cagtgtagcg agnaaaggtt ttcgcctcct gtttcagcgg tgacggctct 60
tgggttttctn cgggnnngct ttttaatttt ag                                     92
```

&lt;210&gt; 430

&lt;211&gt; 410

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (343)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

<222> (368)

<223> n equals a,t,g, or c

<400> 430

```
gcaaaacctt aaatctccag gctttttaaa gcacaaaata taaataaaag ctgggaaagt 60
aaaccaaaat tcttcagatt gttcctcatg aatatcccc ttctctgca attctccaga 120
gtggtaacag atgggtagag gcagctcagg tgaattaccc agcttgccctc tcaattcatt 180
cctcctcttc ctctcaaagg ctgaaggcag ggcctttcca gtctcacia cctgtccttc 240
acctagtccc tcctgaccca gggatggagg ctttgagtcc cacagtgtgg tgatacagag 300
cactagtgtg cactgcctgg ctttatttaa aggaatgcag tangcttcct ctgtagagct 360
ctgaaaangt tgactatata gaagtcttgt atgtttttac ttgggtaaga 410
```

<210> 431

<211> 611

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (327)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (494)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (525)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (536)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (563)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (583)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (605)  
<223> n equals a,t,g, or c

<400> 431  
gcaaacagat aacagaagat acagttgagt ttggctctta gagaaatctg gagaactata 60  
cctgcttcag tgaaataatt acagaatata cttagaaagg caaagtacat tgtaaaataa 120  
agttgagctt agtttttttt aaaaaaaaaa acaaagcaac aaattaacta gatacagaat 180  
aatggagaac aagttgttaa aacatttaat attatatagg atattgctaa ttgtgtatat 240  
gttggtttta ttaataatat gtactaagaa tgccttatt cttgnggta aaaacctgcc 300  
taaattaaat tgggcttcaa tcaactgnaac ctgattcatc ctgggatgna aaccattcga 360  
agtcagctaa ttggactttt atggctctat cttttncttn agtgaagaac cctatttaaa 420  
actgggtcat caattggctg gtctaacaag gatagtcttc aggttcaatt tnctgggcc 480  
tgnggtaagt tggnaacaaa tcataatgga ttaattaaaa ggtnnaccat cattgnatta 540  
cagcggttat tataccgggg canaattctt tacttgcccc agnaatccta attccttggg 600  
ggggncttgg a 611

<210> 432  
<211> 291  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature

<222> (226)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (258)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (266)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (280)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (287)  
<223> n equals a,t,g, or c

<400> 432  
ggcagagttt ttacagcaaa aactgctcaa agccatttaa attatatacct catttttaaaa 60  
gttacatttg caaatatttc tccctatgaa taatgtagtc gatagtgtgc actctttctc 120  
tctctctctc tctctctcac acacacacac acacacacac acacacacac acagacacgg 180  
caccattctg cctggggcac tggaacacat tcctgggggt caccgntggc cagagtcact 240  
aggagggttac ctgagtanc tggggnggcc taatgtctcn tgggggnttt t 291

<210> 433  
<211> 124  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (112)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (114)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (119)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (121)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (122)  
<223> n equals a,t,g, or c

<400> 433  
ctcgtgccga attcggcacg aggagagaga gagagagaga gagagagaga gagagagaga 60  
gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga gngngggcna 120  
nnag 124

<210> 434  
<211> 382  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (67)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (86)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (106)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (116)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (122)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (172)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

420

<222> (191)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (228)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (254)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (267)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (269)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (299)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (321)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (328)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (341)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (373)  
<223> n equals a,t,g, or c

<400> 434  
cgcggtccgct tggttttaaaa aaatgcacaa ttactttccc aaaaaagttg ttacttgcct 60  
tttcaanttg ttgacaaaca cacatntgat attctcttat atgttntagt aatgtnacgt 120



421

```

anaaactcaa gcctttttat tctttgtgat taaatcctgt tttaaaatgt cncaaaacag 180
gaaccagcat nctaattgga ttactatat cgagatatgg ttcaaattngg actactaaaa 240
ttcattgaac actnaaacta tgaaacnant actttttata ttagtgaaga catgggatnt 300
aacttatgga aaatccaagt ngcagganag taatttttgt ntactttttt aaccagactg 360
gaatgggtga agnactagtg cg                                     382

```

&lt;210&gt; 435

&lt;211&gt; 323

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (200)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (209)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (249)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (270)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (271)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (292)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (323)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 435

```

gccgaggtcc ccgcgccaga gacgcagccg cgctcccacc acccacaccc accgcgccct 60
cgttcgccctc ttctccggga gccagtcgcg gccaccgccg ccgcccaggc catcgccacc 120
ctccgcagcc atgtccacca ggtccgtgtc ctgcgtcctc taccgcagga tgttcggcgg 180
cccgggcacc gcgagccggn cgagctcanc gggagctacg tgactacgtc acccgcacct 240

```

422

acagcctgng cagcgcgctg agccccaacn ncagccgcac ctctaccctc gntccccgggc 300  
ggcgtgtatg ccacgcgctc ctn 323

<210> 436

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (493)

<223> n equals a,t,g, or c

<400> 436

gaattttgaa tgtattttta aattttat ttttcaaaataa tgacattagt aaaaatttta 60  
catagcctgt attgaattca cacattcaaa tgaggcttta ccagtaatga tggggattaa 120  
tacagagcta gtgtttggca tttgacttta tctcaaatga gctaactgct caatgaatta 180  
cagaagactc atactctttt tattttttcc tggaaattaa aaaagaaaag ctttactaaa 240  
tattgacata tatatttact ccaaatttta catttagtga aataagaata tctctagtag 300  
ctcagttaac atncaaccag gaaagcttca aaaagatgat tctgaaaatg gcaggcaaaa 360  
tttcttttta ttgtaggcaa ttcttaaact ggaaatttgg cntatgcat aataagtcac 420

423

gtgggtaaaa catccacctt gcagttaggg tnccagnatc ctaaccttnc taatttatTT 480  
ctnttaggcc aantggacca ttt 503

<210> 437  
<211> 77  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (27)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (70)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (71)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (73)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (77)  
<223> n equals a,t,g, or c

<400> 437  
ggcacgagga gagagagaga gagaganaga gagagagaga gagagagaga gagagagaga 60  
gagagagagn ntncgc 77

<210> 438  
<211> 424  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (281)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (288)  
<223> n equals a,t,g, or c

424

<220>  
<221> misc feature  
<222> (373)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (374)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (387)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (392)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (394)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (402)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (417)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (420)  
<223> n equals a,t,g, or c

<400> 438  
attcaggggc tgacacttca aggtgacaga aggaccagcc cttgagggag aacttatggc 60  
cacagcccat ccatagtaac tgacatgatt agcagaagaa aggaacattt aggggcaagc 120  
aggcgctgtg ctatcatgat ggaatttcat atctacagat agagagtttg ttgtgtacag 180  
acttgttgtg actttgacgc ttgcgaacta gagatgtgca attgatttct tttcttcctg 240  
gctttttaac tcccctgttt caatcactgt cctcccacac naggganga cagaaaggaa 300  
attggccttc ctttttttcc ttggccccct tcccccaagg cctttaaaact tttggaaccc 360  
caaggaaaac tgnnttgaa aaaccnttt cncnggggtt gnaaaaaatt gggaaanccn 420  
ccca 424

425

<210> 439  
<211> 382  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (94)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (316)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (357)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (378)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (380)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (381)  
<223> n equals a,t,g, or c

<400> 439  
gcccagccca gaacaggggt ggattcccca acctcaacct cctttcttct ctgctcccaa 60  
acctatgtcag gaccaccttc ctctagagct cggagcccg gaggtcttc acccactcct 120  
actccagtat cagctggcac gggctccttc ctgagagcaa aggtcaagga cccctctgt 180  
gaaggctcag cagaggtggg atcccacgcc ccctcccgcc cctccctgc cctccattca 240  
gggagaaacc tctccttccc gtgtgagaag ggccagaggg tccaggcatc ccaagtccag 300  
cgtgaagggc cacagnccct cttggctgcc aagcacgcag atcccatgga catttgngga 360  
aagggtcct tgcctgcngn ng 382

<210> 440  
<211> 231  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature

<222> (143)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (180)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (186)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (211)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (218)  
<223> n equals a,t,g, or c

<400> 440  
gaagaaatca aaacaagatc acaagaatac tgaaaaaatga agcctaaaat gaagtattca 60  
accaacaaaa ttccacagc aaagtggaag aacacagcaa gcaaagcctt gtgtttcaag 120  
ctgggaaaaat cccaacagaa ggncaaagaa gtttgcccca tgtactttat gaagctccgn 180  
tctggncctta tgataaaaaa ggaggcctgg nactttanga gagaaaccac c 231

<210> 441  
<211> 86  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (69)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (73)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (78)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<400> 441

gggcgggttg tgcggcctcc attgttcgtg ttttaaggcg ccatgagggg tgacagaggc 60  
ctgtggtcnt ggnggaacnt ttgnnt 86

<210> 442

<211> 541

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<400> 442

caaaccctag ccaccttact accagacaac cttagccaaa ccatttaccc aaataaagta 60  
taggcgatag aaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120  
aattataacc aagcataata tagcaaggac taacccttat accttctgca taatgaatta 180  
actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240  
taagaacagc taaaagagca caccctgcta tgtagcaaaa tagtgggaag atttataggt 300  
agaggcgaca aacctaccga gcctgggtgat agctgggtgt ccaagataga atcttagttc 360  
aactttaaat ttgcccacag aaccctctaa atccccttgt aaatttâact gttagtccaa 420  
agaagaacag ctctttggac actaggaaaa aacttgtaga gagagtaaaa anttaacacc 480  
catagtaggc taaaagcanc nccaatttaa gaaagcgttc aagctcacac ccactaccta 540  
a 541

<210> 443

<211> 408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<400> 443

```
cgacgaggtt ttccagggtta catgtataca gatttagcca cgatatatga acgcgctggg 60
cgagtggaaag ggagaaacgg ctogattact caaatcccta ttctaaccat gcctaataatgat 120
gatatacactc accccatccc agacttgact ggctacatta cagaggggca gatctatgtg 180
gacagacagc tgcacaacag acagatttat ccacctatca atgtgctgcc ctcactatca 240
acgggttaatg aagtctgcta ttggagaagg ggatgaccag gaaggatcat gccgatgtat 300
ctaaccagct tnattgcctg ctatgctatt ggaaagggat gtgcaagcca tgaaagcttg 360
cgttggagaa aaaancctta cttaaangan cntctctact tggaaatc 408
```

<210> 444

<211> 323

<212> PRT

<213> Homo sapiens

<400> 444

```
Arg Lys Lys Met Ala Leu Thr Ser Phe Leu Pro Ala Pro Thr Gln Leu
  1                   5                   10                   15
```

```
Ser Gln Asp Gln Leu Glu Ala Glu Glu Lys Ala Arg Ser Gln Arg Ser
                20                   25                   30
```

```
Arg Gln Thr Ser Leu Val Ser Ser Arg Arg Glu Pro Pro Pro Tyr Gly
                35                   40                   45
```

```
Tyr Arg Lys Gly Trp Ile Pro Arg Leu Leu Glu Asp Phe Gly Asp Gly
                50                   55                   60
```

```
Gly Ala Phe Pro Glu Ile His Val Ala Gln Tyr Pro Leu Asp Met Gly
```



65		70		75		80
Arg Lys Lys Lys Met Ser Asn Ala Leu Ala Ile Gln Val Asp Ser Glu						
	85		90		95	
Gly Lys Ile Lys Tyr Asp Ala Ile Ala Arg Gln Gly Gln Ser Lys Asp						
	100		105		110	
Lys Val Ile Tyr Ser Lys Tyr Thr Asp Leu Val Pro Lys Glu Val Met						
	115		120		125	
Asn Ala Asp Asp Pro Asp Leu Gln Arg Pro Asp Glu Glu Ala Ile Lys						
	130		135		140	
Glu Ile Thr Glu Lys Thr Arg Val Ala Leu Glu Lys Ser Val Ser Gln						
	145		150		155	
Lys Val Ala Ala Ala Met Pro Val Arg Ala Ala Asp Lys Leu Ala Pro						
	165		170		175	
Ala Gln Tyr Ile Arg Tyr Thr Pro Ser Gln Gln Gly Val Ala Phe Asn						
	180		185		190	
Ser Gly Ala Lys Gln Arg Val Ile Arg Met Val Glu Met Gln Lys Asp						
	195		200		205	
Pro Met Glu Pro Pro Arg Phe Lys Ile Asn Lys Lys Ile Pro Arg Gly						
	210		215		220	
Pro Pro Ser Pro Pro Ala Pro Val Met His Ser Pro Ser Arg Lys Met						
	225		230		235	
Thr Val Lys Glu Gln Gln Glu Trp Lys Ile Pro Pro Cys Ile Ser Asn						
	245		250		255	
Trp Lys Asn Ala Lys Gly Tyr Thr Ile Pro Leu Asp Lys Arg Leu Ala						
	260		265		270	
Ala Asp Gly Arg Gly Leu Gln Thr Val His Ile Asn Glu Asn Phe Ala						
	275		280		285	
Lys Leu Ala Glu Ala Leu Tyr Ile Ala Asp Arg Lys Ala Arg Glu Ala						
	290		295		300	
Val Gly Asn Ala Cys Pro Ser Arg Glu Lys Asn Gly Ser Glu Arg Lys						
	305		310		315	
Gly Lys Thr						

&lt;210&gt; 445

&lt;211&gt; 640

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 445

Trp Val Arg Pro Thr Arg Pro Thr Leu Thr Ser Ile Cys Glu Lys Val  
 1 5 10 15

Ile Val Pro Asn Met Glu Phe Arg Ala Ala Asp Glu Glu Ala Phe Glu  
 20 25 30

Asp Asn Ser Glu Glu Tyr Ile Arg Arg Asp Leu Glu Gly Ser Asp Ile  
 35 40 45

Asp Thr Arg Arg Arg Ala Ala Cys Asp Leu Val Arg Gly Leu Cys Lys  
 50 55 60

Phe Phe Glu Gly Pro Val Thr Gly Ile Phe Ser Gly Tyr Val Asn Ser  
 65 70 75 80

Met Leu Gln Glu Tyr Ala Lys Asn Pro Ser Val Asn Trp Lys His Lys  
 85 90 95

Asp Ala Ala Ile Tyr Leu Val Thr Ser Leu Ala Ser Lys Ala Gln Thr  
 100 105 110

Gln Lys His Gly Ile Thr Gln Ala Asn Glu Leu Val Asn Leu Thr Glu  
 115 120 125

Phe Phe Val Asn His Ile Leu Pro Asp Leu Lys Ser Ala Asn Val Asn  
 130 135 140

Glu Phe Pro Val Leu Lys Ala Asp Gly Ile Lys Tyr Ile Met Ile Phe  
 145 150 155 160

Arg Asn Gln Val Pro Lys Glu His Leu Leu Val Ser Ile Pro Leu Leu  
 165 170 175

Ile Asn His Leu Gln Ala Glu Ser Ile Val Val His Thr Tyr Ala Ala  
 180 185 190

His Ala Leu Glu Arg Leu Phe Thr Met Arg Gly Pro Asn Asn Ala Thr  
 195 200 205

Leu Phe Thr Ala Ala Glu Ile Ala Pro Phe Val Glu Ile Leu Leu Thr  
 210 215 220

Asn Leu Phe Lys Ala Leu Thr Leu Pro Gly Ser Ser Glu Asn Glu Tyr  
 225 230 235 240

Ile	Met	Lys	Ala	Ile	Met	Arg	Ser	Phe	Ser	Leu	Leu	Gln	Glu	Ala	Ile
245								250				255			
Ile	Pro	Tyr	Ile	Pro	Thr	Leu	Ile	Thr	Gln	Leu	Thr	Gln	Lys	Leu	Leu
260								265				270			
Ala	Val	Ser	Lys	Asn	Pro	Ser	Lys	Pro	His	Phe	Asn	His	Tyr	Met	Phe
275								280				285			
Glu	Ala	Ile	Cys	Leu	Ser	Ile	Arg	Ile	Thr	Cys	Lys	Ala	Asn	Pro	Ala
290								295				300			
Ala	Val	Val	Asn	Phe	Glu	Glu	Ala	Leu	Phe	Leu	Val	Phe	Thr	Glu	Ile
305								310				315			
Leu	Gln	Asn	Asp	Val	Gln	Glu	Phe	Ile	Pro	Tyr	Val	Phe	Gln	Val	Met
325								330				335			
Ser	Leu	Leu	Leu	Glu	Thr	His	Lys	Asn	Asp	Ile	Pro	Ser	Ser	Tyr	Met
340								345				350			
Ala	Leu	Phe	Pro	His	Leu	Leu	Gln	Pro	Val	Leu	Trp	Glu	Arg	Thr	Gly
355								360				365			
Asn	Ile	Pro	Ala	Leu	Val	Arg	Leu	Leu	Gln	Ala	Phe	Leu	Glu	Arg	Gly
370								375				380			
Ser	Asn	Thr	Ile	Ala	Ser	Ala	Ala	Ala	Asp	Lys	Ile	Pro	Gly	Leu	Leu
385								390				395			
Gly	Val	Phe	Gln	Lys	Leu	Ile	Ala	Ser	Lys	Ala	Asn	Asp	His	Gln	Gly
405								410				415			
Phe	Tyr	Leu	Leu	Asn	Ser	Ile	Ile	Glu	His	Met	Pro	Pro	Glu	Ser	Val
420								425				430			
Asp	Gln	Tyr	Arg	Lys	Gln	Ile	Phe	Ile	Leu	Leu	Phe	Gln	Arg	Leu	Gln
435								440				445			
Asn	Ser	Lys	Thr	Thr	Lys	Phe	Ile	Lys	Ser	Phe	Leu	Val	Phe	Ile	Asn
450								455				460			
Leu	Tyr	Cys	Ile	Lys	Tyr	Gly	Ala	Leu	Ala	Leu	Gln	Glu	Ile	Phe	Asp
465								470				475			
Gly	Ile	Gln	Pro	Lys	Met	Phe	Gly	Met	Val	Leu	Glu	Lys	Ile	Ile	Ile
485								490				495			
Pro	Glu	Ile	Gln	Lys	Val	Ser	Gly	Asn	Val	Glu	Lys	Lys	Ile	Cys	Ala
500								505				510			

Val	Gly	Ile	Thr	Lys	Leu	Leu	Thr	Glu	Cys	Pro	Pro	Met	Met	Asp	Thr
515				520				525							
Glu	Tyr	Thr	Lys	Leu	Trp	Thr	Pro	Leu	Leu	Gln	Ser	Leu	Ile	Gly	Leu
530				535				540							
Phe	Glu	Leu	Pro	Glu	Asp	Asp	Thr	Ile	Pro	Asp	Glu	Glu	His	Phe	Ile
545				550				555				560			
Asp	Ile	Glu	Asp	Thr	Pro	Gly	Tyr	Gln	Thr	Ala	Phe	Ser	Gln	Leu	Ala
				565				570				575			
Phe	Ala	Gly	Lys	Lys	Glu	His	Asp	Pro	Val	Gly	Gln	Met	Val	Asn	Asn
				580				585				590			
Pro	Lys	Ile	His	Leu	Ala	Gln	Ser	Leu	His	Lys	Leu	Ser	Thr	Ala	Cys
595				600				605							
Pro	Gly	Arg	Val	Pro	Ser	Met	Val	Ser	Thr	Ser	Leu	Asn	Ala	Glu	Ala
610				615				620							
Leu	Gln	Tyr	Leu	Gln	Gly	Tyr	Leu	Gln	Ala	Ala	Ser	Val	Thr	Leu	Leu
625				630				635				640			

```
<210> 446
<211> 157
<212> PRT
<213> Homo sapiens
```

<400> 446

Leu	Glu	Val	Ala	Ile	Cys	Cys	Gln	Gly	Cys	Gly	Val	Ala	Pro	Asp	Phe
1				5					10					15	
Thr	Ala	Val	Pro	Gly	Thr	Trp	Thr	Pro	Arg	Leu	Gly	Val	Gly	Val	Cys
			20					25					30		
Phe	Leu	Leu	Leu	Ala	Phe	Thr	Glu	Ala	Thr	Gly	Val	Gly	Gly	Gly	Gly
	35						40					45			
Trp	Glu	Ser	Leu	Lys	Arg	Asp	Cys	His	Gly	Ser	Phe	Pro	Thr	Arg	Ala
	50					55					60				
Thr	Ser	Ser	His	Leu	Thr	Asp	Ala	Arg	Pro	Lys	Gly	Leu	Gln	Pro	Val
65					70					75					80

Ala Ile Pro Cys Phe Pro Arg Gln Pro Ala Pro Ala Ala Ile Pro Arg  
85 90 95  
Glu Val Ala Gln Glu Gly Ala Trp Pro Arg Ile Arg Asn Trp His Thr  
100 105 110  
Ala Lys Ser Pro Ala Leu Pro Leu Val Asp Ser Ile Val Leu Glu Trp  
115 120 125  
Pro Arg Ser Asp Glu Leu Cys Ala Cys Pro Trp Gln Trp Gln Ala Val  
130 135 140  
Ser Tyr Gly His Leu Gly Arg Thr Trp Asn Leu Ala Ser  
145 150 155

<210> 447

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 447

Ala Glu Phe Cys Leu Trp Ala Ser Pro Phe Pro Ala Asn Ser Thr Asp  
1 5 10 15  
Pro Val Lys Ala Ala Gln Phe Glu Pro Pro Gly Arg Gln Met Ile Ala  
20 25 30  
Ile Arg Lys Arg Gln Xaa Glu Glu Thr Asn Asn Asp Tyr Glu Thr Ala  
35 40 45  
Asp Gly Gly Tyr Met Thr Leu Asn Pro Arg Ala Pro Thr Asp Asp Asp  
50 55 60  
Lys Asn Ile Tyr Leu Thr Leu Pro Pro Asn Asp His Val Asn Ser Asn  
65 70 75 80

Asn

<210> 448

<211> 340

<212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 448

Cys Val Trp Val Leu Val Cys Arg Pro Ser Gly Pro Gly His Asp Ser  
 1 5 10 15

Ile Met Tyr His Asn Ser Ser Gln Lys Arg His Trp Thr Phe Ser Ser  
 20 25 30

Glu Glu Gln Leu Ala Arg Leu Arg Ala Asp Ala Asn Arg Lys Phe Arg  
 35 40 45

Cys Lys Ala Val Ala Asn Gly Lys Val Leu Pro Asn Asp Pro Val Phe  
 50 55 60

Leu Glu Pro His Glu Glu Met Thr Leu Cys Lys Tyr Tyr Glu Lys Arg  
 65 70 75 80

Leu Leu Glu Phe Cys Ser Val Phe Lys Pro Ala Met Pro Arg Ser Val  
 85 90 95

Val Gly Thr Ala Cys Met Tyr Phe Lys Arg Phe Tyr Leu Asn Asn Ser  
 100 105 110

Val Met Glu Tyr His Pro Arg Ile Ile Met Leu Thr Cys Ala Phe Leu  
 115 120 125

Ala Cys Lys Val Asp Glu Phe Asn Val Ser Ser Pro Gln Phe Val Gly  
 130 135 140

Asn Leu Arg Glu Ser Pro Leu Gly Gln Glu Lys Ala Leu Glu Gln Ile  
 145 150 155 160

Leu Glu Tyr Glu Leu Leu Leu Ile Gln Gln Leu Asn Phe His Leu Ile  
 165 170 175

Val His Asn Pro Tyr Arg Pro Phe Glu Gly Phe Leu Ile Asp Leu Lys  
 180 185 190

Thr Arg Tyr Pro Ile Leu Glu Asn Pro Glu Ile Leu Arg Lys Thr Ala  
 195 200 205

Asp Asp Phe Leu Asn Arg Ile Ala Leu Thr Asp Ala Tyr Leu Leu Tyr  
 210 215 220

Thr Pro Ser Gln Ile Ala Leu Thr Ala Ile Leu Ser Ser Ala Ser Arg  
 225 230 235 240

Ala Gly Ile Thr Met Glu Ser Tyr Leu Ser Glu Ser Leu Met Leu Lys  
 245 250 255

Glu Asn Arg Thr Cys Leu Ser Gln Leu Leu Asp Ile Met Lys Ser Met  
                   260                  265                  270  
 Arg Asn Leu Val Lys Lys Tyr Glu Pro Pro Arg Ser Glu Glu Val Ala  
                   275                  280                  285  
 Val Leu Lys Gln Lys Leu Glu Arg Cys His Ser Ala Glu Leu Ala Leu  
                   290                  295                  300  
 Asn Val Ile Thr Lys Lys Arg Lys Gly Tyr Glu Asp Asp Asp Tyr Val  
                   305                  310                  315                  320  
 Ser Lys Lys Ser Lys His Glu Glu Glu Glu Trp Thr Asp Asp Asp Leu  
                   325                  330                  335  
 Val Glu Ser Leu  
                   340

<210> 449  
 <211> 625  
 <212> PRT  
 <213> Homo sapiens

<400> 449  
 Ala Leu Gly Cys Arg Ser Leu Cys Cys Val Ile Pro Gln Ser His Ala  
   1                  5                  10                  15  
 Arg Asp Ser Gly Tyr Leu Phe Val Gly Leu Ser Gly Phe Arg Leu Pro  
                   20                  25                  30  
 Asp Gln Ala Pro Ala Pro Ala Leu Gln Arg Arg Leu Tyr Ser Pro Asp  
                   35                  40                  45  
 Ala Asp Arg Asp Cys Cys Ser His Gly Pro Val Ser Gly Gly Gln Ser  
                   50                  55                  60  
 Ala Gln Leu Val Leu Asp Thr Lys Asp Leu Thr Ile Glu Lys Val Val  
   65                  70                  75                  80  
 Ile Asn Gly Gln Glu Val Lys Tyr Ala Leu Gly Glu Arg Gln Ser Tyr  
                   85                  90                  95  
 Lys Gly Ser Pro Met Glu Ile Ser Leu Pro Ile Ala Leu Ser Lys Asn  
                   100                  105                  110  
 Gln Glu Ile Val Ile Glu Ile Ser Phe Glu Thr Ser Pro Lys Ser Ser  
                   115                  120                  125  
 Ala Leu Gln Trp Leu Thr Pro Glu Gln Thr Ser Gly Lys Glu His Pro

130	135	140
Tyr Leu Phe Ser Gln Cys Gln Ala Ile His Cys Arg Ala Ile Leu Pro		
145	150	155 160
Cys Gln Asp Thr Pro Ser Val Lys Leu Thr Tyr Thr Ala Glu Val Ser		
	165	170 175
Val Pro Lys Glu Leu Val Ala Leu Met Ser Ala Ile Arg Asp Gly Glu		
	180	185 190
Thr Pro Asp Pro Glu Asp Pro Ser Arg Lys Ile Tyr Lys Phe Ile Gln		
	195	200 205
Lys Val Pro Ile Pro Cys Tyr Leu Ile Ala Leu Val Val Gly Ala Leu		
	210	215 220
Glu Ser Arg Gln Ile Gly Pro Arg Thr Leu Val Trp Ser Glu Lys Glu		
	225	230 235 240
Gln Val Glu Lys Ser Ala Tyr Glu Phe Ser Glu Thr Glu Ser Met Leu		
	245	250 255
Lys Ile Ala Glu Asp Leu Gly Gly Pro Tyr Val Trp Gly Gln Tyr Asp		
	260	265 270
Leu Leu Val Leu Pro Pro Ser Phe Pro Tyr Gly Gly Met Glu Asn Pro		
	275	280 285
Cys Leu Thr Phe Val Thr Pro Thr Leu Leu Ala Gly Asp Lys Ser Leu		
	290	295 300
Ser Asn Val Ile Ala His Glu Ile Ser His Ser Trp Thr Gly Asn Leu		
	305	310 315 320
Val Thr Asn Lys Thr Trp Asp His Phe Trp Leu Asn Glu Gly His Thr		
	325	330 335
Val Tyr Leu Glu Arg His Ile Cys Gly Arg Leu Phe Gly Glu Lys Phe		
	340	345 350
Arg His Phe Asn Ala Leu Gly Gly Trp Gly Glu Leu Gln Asn Ser Val		
	355	360 365
Lys Thr Phe Gly Glu Thr His Pro Phe Thr Lys Leu Val Val Asp Leu		
	370	375 380
Thr Asp Ile Asp Pro Asp Val Ala Tyr Ser Ser Val Pro Tyr Glu Lys		
	385	390 395 400
Gly Phe Ala Leu Leu Phe Tyr Leu Glu Gln Leu Leu Gly Gly Pro Glu		



	405		410		415
Ile Phe Leu Gly Phe Leu Lys Ala Tyr Val Glu Lys Phe Ser Tyr Lys					
	420		425		430
Ser Ile Thr Thr Asp Asp Trp Lys Asp Phe Leu Tyr Ser Tyr Phe Lys					
	435		440		445
Asp Lys Val Asp Val Leu Asn Gln Val Asp Trp Asn Ala Trp Leu Tyr					
	450		455		460
Ser Pro Gly Leu Pro Pro Ile Lys Pro Asn Tyr Asp Met Thr Leu Thr					
	465		470		475
Asn Ala Cys Ile Ala Leu Ser Gln Arg Trp Ile Thr Ala Lys Glu Asp					
	485		490		495
Asp Leu Asn Ser Phe Asn Ala Thr Asp Leu Lys Asp Leu Ser Ser His					
	500		505		510
Gln Leu Asn Glu Phe Leu Ala Gln Thr Leu Gln Arg Ala Pro Leu Pro					
	515		520		525
Leu Gly His Ile Lys Arg Met Gln Glu Val Tyr Asn Phe Asn Ala Ile					
	530		535		540
Asn Asn Ser Glu Ile Arg Phe Arg Trp Leu Arg Leu Cys Ile Gln Ser					
	545		550		555
Lys Trp Glu Asp Ala Ile Pro Leu Ala Leu Lys Met Ala Thr Glu Gln					
	565		570		575
Gly Arg Met Lys Phe Thr Arg Pro Leu Phe Lys Asp Leu Ala Ala Phe					
	580		585		590
Asp Lys Ser His Asp Gln Ala Val Arg Thr Tyr Gln Glu His Lys Ala					
	595		600		605
Ser Met His Pro Val Thr Ala Met Leu Val Gly Lys Asp Leu Lys Val					
	610		615		620

Asp  
625

<210> 450

<211> 95

<212> PRT

<213> Homo sapiens

&lt;400&gt; 450

Asp Gly Ala Leu Leu Ile Pro His Leu Val Gln Phe Leu His Leu Gln  
1 5 10 15

Met Ala Ala Val Arg Ser Trp Gly Arg Arg Thr Leu Gln Ser His Thr  
20 25 30

Lys Cys Leu Pro Pro Gly Pro Leu Ser Ser Leu Ser Ala Thr Gln Cys  
35 40 45

His Gln Asp Glu Gln Ser Trp Pro Ser Ile Met Thr Glu Arg Gly Arg  
50 55 60

Leu Arg Gly Ser Pro Asp Cys Ala Glu Leu Arg Thr Gln Trp Arg Phe  
65 70 75 80

Ser Gly Thr Leu Arg Ser Leu Trp Gln Ala Trp Ser Gly Ser Pro  
85 90 95

&lt;210&gt; 451

&lt;211&gt; 147

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 451

Ser Ser Pro Val Asn Ala Thr Ala Phe Ala Ser Cys Leu Cys Ala Val  
1 5 10 15

Cys Asp Val Thr Gly Leu Phe Cys Lys His Gln His Val Gly Lys Leu  
20 25 30

Gly Ser Asn Leu Cys Ala Phe Val Phe Pro Met Gly Arg Asp Ser Gly  
35 40 45

Ser Arg Val Pro Leu Cys Ile Cys Phe Phe Val Leu Ala Glu Ile Leu  
50 55 60

Leu Glu Val Gly Arg Phe Ser Gln Gly Phe Ile Arg Leu Met Ser Ile  
65 70 75 80

Ser Val Leu Pro Ser Ser Lys Pro His Leu Leu Asn Gly Lys Gly Arg  
85 90 95

Trp Met Ala Pro Ala Gln Leu Asp Leu Arg Leu Trp Ser Gln Arg Arg  
100 105 110

Cys Gly Ala Glu Ala Tyr Pro Ala Asp Thr Leu Asp Ile Leu Leu Pro  
115 120 125

Pro Gly Cys Arg Gly Gln Arg Pro Pro Ala Gln Gly Ser Cys Thr Tyr  
 130 135 140

Leu Leu Ile  
 145

<210> 452  
 <211> 487  
 <212> PRT  
 <213> Homo sapiens

<400> 452  
 Asp Leu Glu Arg Ser Tyr Leu Leu Lys Ile Asn Gly Lys Val Ala Glu  
 1 5 10 15

Arg Pro Gln His Met Leu Met Arg Val Ser Val Gly Ile His Lys Glu  
 20 25 30

Asp Ile Asp Ala Ala Ile Glu Thr Tyr Asn Leu Leu Ser Glu Arg Trp  
 35 40 45

Phe Thr His Ala Ser Pro Thr Leu Phe Asn Ala Gly Thr Asn Arg Pro  
 50 55 60

Gln Leu Ser Ser Cys Phe Leu Leu Ser Met Lys Asp Asp Ser Ile Glu  
 65 70 75 80

Gly Ile Tyr Asp Thr Leu Lys Gln Cys Ala Leu Ile Ser Lys Ser Ala  
 85 90 95

Gly Gly Ile Gly Val Ala Val Ser Cys Ile Arg Ala Thr Gly Ser Tyr  
 100 105 110

Ile Ala Gly Thr Asn Gly Asn Ser Asn Gly Leu Val Pro Met Leu Arg  
 115 120 125

Val Tyr Asn Asn Thr Ala Arg Tyr Val Asp Gln Gly Gly Asn Lys Arg  
 130 135 140

Pro Gly Ala Phe Ala Ile Tyr Leu Glu Pro Trp His Leu Asp Ile Phe  
 145 150 155 160

Glu Phe Leu Asp Leu Lys Lys Asn Thr Gly Lys Glu Glu Gln Arg Ala  
 165 170 175

Arg Asp Leu Phe Phe Ala Leu Trp Ile Pro Asp Leu Phe Met Lys Arg  
 180 185 190

Val Glu Thr Asn Gln Asp Trp Ser Leu Met Cys Pro Asn Glu Cys Pro

195					200					205					
Gly	Leu	Asp	Glu	Val	Trp	Gly	Glu	Glu	Phe	Glu	Lys	Leu	Tyr	Ala	Ser
210						215					220				
Tyr	Glu	Lys	Gln	Gly	Arg	Val	Arg	Lys	Val	Val	Lys	Ala	Gln	Gln	Leu
225					230					235					240
Trp	Tyr	Ala	Ile	Ile	Glu	Ser	Gln	Thr	Glu	Thr	Gly	Thr	Pro	Tyr	Met
			245						250					255	
Leu	Tyr	Lys	Asp	Ser	Cys	Asn	Arg	Lys	Ser	Asn	Gln	Gln	Asn	Leu	Gly
			260					265					270		
Thr	Ile	Lys	Cys	Ser	Asn	Leu	Cys	Thr	Glu	Ile	Val	Glu	Tyr	Thr	Ser
	275						280					285			
Lys	Asp	Glu	Val	Ala	Val	Cys	Asn	Leu	Ala	Ser	Leu	Ala	Leu	Asn	Met
290						295					300				
Tyr	Val	Thr	Ser	Glu	His	Thr	Tyr	Asp	Phe	Lys	Lys	Leu	Ala	Glu	Val
305					310					315					320
Thr	Lys	Val	Val	Val	Arg	Asn	Leu	Asn	Lys	Ile	Ile	Asp	Ile	Asn	Tyr
			325						330					335	
Tyr	Pro	Val	Pro	Glu	Ala	Cys	Leu	Ser	Asn	Lys	Arg	His	Arg	Pro	Ile
			340					345					350		
Gly	Ile	Gly	Val	Gln	Gly	Leu	Ala	Asp	Ala	Phe	Ile	Leu	Met	Arg	Tyr
	355					360						365			
Pro	Phe	Glu	Ser	Ala	Glu	Ala	Gln	Leu	Leu	Asn	Lys	Gln	Ile	Phe	Glu
	370					375					380				
Thr	Ile	Tyr	Tyr	Gly	Ala	Leu	Glu	Ala	Ser	Cys	Asp	Leu	Ala	Lys	Glu
385					390					395					400
Gln	Gly	Pro	Tyr	Glu	Thr	Tyr	Glu	Gly	Ser	Pro	Val	Ser	Lys	Gly	Ile
			405					410						415	
Leu	Gln	Tyr	Asp	Met	Trp	Asn	Val	Thr	Pro	Thr	Asp	Leu	Trp	Asp	Trp
			420					425				430			
Lys	Val	Leu	Lys	Glu	Lys	Ile	Ala	Lys	Tyr	Gly	Ile	Arg	Asn	Ser	Leu
	435					440						445			
Leu	Ile	Ala	Pro	Met	Pro	Thr	Ala	Ser	Thr	Ala	Gln	Ile	Leu	Gly	Asn
	450					455					460				
Asn	Glu	Ser	Ile	Glu	Pro	Tyr	Thr	Ser	Asn	Ile	Tyr	Thr	Arg	Arg	Ser

465                                      470                                      475                                      480

Cys Gln Glu Asn Phe Arg Leu  
485

<210> 453

<211> 330

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (213)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 453

Glu Glu Val Pro Leu Ala Gln Pro Glu Ser Lys Arg Asp Ile Leu Phe  
1                                      5                                      10                                      15

Leu Phe Asp Gly Ser Ala Asn Leu Val Gly Gln Phe Pro Val Val Arg  
20                                      25                                      30

Asp Phe Leu Tyr Lys Ile Ile Asp Glu Leu Asn Val Lys Pro Glu Gly  
35                                      40                                      45

Thr Arg Ile Ala Val Ala Gln Tyr Ser Asp Asp Val Lys Val Glu Ser  
50                                      55                                      60

Arg Phe Asp Glu His Gln Ser Lys Pro Glu Ile Leu Asn Leu Val Lys  
65                                      70                                      75                                      80

Arg Met Lys Ile Lys Thr Gly Lys Ala Leu Asn Leu Gly Tyr Ala Leu  
85                                      90                                      95

Asp Tyr Ala Gln Arg Tyr Ile Phe Val Lys Ser Ala Gly Ser Arg Ile  
100                                      105                                      110

Glu Asp Gly Val Leu Gln Phe Leu Val Leu Leu Val Ala Gly Arg Ser  
115                                      120                                      125

Ser Asp Arg Val Asp Gly Pro Ala Ser Asn Leu Lys Gln Ser Gly Val  
130                                      135                                      140

Val Pro Phe Ile Phe Gln Ala Lys Asn Ala Asp Pro Ala Glu Leu Glu  
145                                      150                                      155                                      160

Gln Ile Val Leu Ser Pro Ala Phe Ile Leu Ala Ala Glu Ser Leu Pro  
165                                      170                                      175

Lys Ile Gly Asp Leu His Pro Gln Ile Val Asn Leu Leu Lys Ser Val  
 180 185 190

His Asn Gly Ala Pro Ala Pro Val Ser Gly Glu Lys Asp Val Val Phe  
 195 200 205

Leu Leu Asp Gly Xaa Glu Gly Val Arg Ser Gly Phe Pro Leu Leu Lys  
 210 215 220

Glu Phe Val Gln Arg Val Val Glu Ser Leu Asp Val Gly Gln Asp Arg  
 225 230 235 240

Val Arg Val Ala Val Val Gln Tyr Ser Asp Arg Thr Arg Pro Glu Phe  
 245 250 255

Tyr Leu Asn Ser Tyr Met Asn Lys Gln Asp Val Val Asn Ala Val Arg  
 260 265 270

Gln Leu Thr Leu Leu Gly Gly Pro Thr Pro Asn Thr Gly Ala Ala Leu  
 275 280 285

Glu Phe Val Leu Arg Asn Ile Leu Val Ser Ser Ala Gly Ser Arg Ile  
 290 295 300

Thr Glu Gly Val Pro Gln Leu Leu Ile Val Leu Thr Ala Asp Ser Leu  
 305 310 315 320

Gly Met Met Cys Gly Thr Pro Pro Trp Ser  
 325 330

<210> 454

<211> 280

<212> PRT

<213> Homo sapiens

<400> 454

Leu Glu Phe Arg Ser Gly Lys Val Ala Phe Arg Asp Cys Glu Gly Arg  
 1 5 10 15

Tyr Leu Ala Pro Ser Gly Pro Ser Gly Thr Leu Lys Ala Gly Lys Ala  
 20 25 30

Thr Lys Val Gly Lys Asp Glu Leu Phe Ala Leu Glu Gln Ser Cys Ala  
 35 40 45

Gln Val Val Leu Gln Ala Ala Asn Glu Arg Asn Val Ser Thr Arg Gln  
 50 55 60

Gly Met Asp Leu Ser Ala Asn Gln Asp Glu Glu Thr Asp Gln Glu Thr

65		70		75		80									
Phe	Gln	Leu	Glu	Ile	Asp	Arg	Asp	Thr	Lys	Lys	Cys	Ala	Phe	Arg	Thr
				85					90					95	
His	Thr	Gly	Lys	Tyr	Trp	Thr	Leu	Thr	Ala	Thr	Gly	Gly	Val	Gln	Ser
			100					105					110		
Thr	Ala	Ser	Ser	Lys	Asn	Ala	Ser	Cys	Tyr	Phe	Asp	Ile	Glu	Trp	Arg
		115					120					125			
Asp	Arg	Arg	Ile	Thr	Leu	Arg	Ala	Ser	Asn	Gly	Lys	Phe	Val	Thr	Ser
	130					135					140				
Lys	Lys	Asn	Gly	Gln	Leu	Ala	Ala	Ser	Val	Glu	Thr	Ala	Gly	Asp	Ser
145					150					155				160	
Glu	Leu	Phe	Leu	Met	Lys	Leu	Ile	Asn	Arg	Pro	Ile	Ile	Val	Phe	Arg
			165					170					175		
Gly	Glu	His	Gly	Phe	Ile	Gly	Cys	Arg	Lys	Val	Thr	Gly	Thr	Leu	Asp
		180					185					190			
Ala	Asn	Arg	Ser	Ser	Tyr	Asp	Val	Phe	Gln	Leu	Glu	Phe	Asn	Asp	Gly
	195						200					205			
Ala	Tyr	Asn	Ile	Lys	Asp	Ser	Thr	Gly	Lys	Tyr	Trp	Thr	Val	Gly	Ser
	210					215					220				
Asp	Ser	Ala	Val	Thr	Ser	Ser	Gly	Asp	Thr	Pro	Val	Asp	Phe	Phe	Phe
225					230				235					240	
Glu	Phe	Cys	Asp	Tyr	Asn	Lys	Val	Ala	Ile	Lys	Val	Gly	Gly	Arg	Tyr
			245					250				255			
Leu	Lys	Gly	Asp	His	Ala	Gly	Val	Leu	Lys	Ala	Ser	Ala	Glu	Thr	Val
		260					265					270			
Asp	Pro	Ala	Ser	Leu	Trp	Glu	Tyr								
	275					280									

&lt;210&gt; 455

&lt;211&gt; 255

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 455

Asn	Ser	Arg	Val	Asp	Pro	Arg	Val	Arg	Thr	Ala	Leu	Gln	Ile	Phe	Gln
1				5					10					15	

Arg Ile Pro Arg Trp Pro His Val Ala Gln Trp Asn Arg Ser Ser Ala  
                   20                  25                  30  
 Thr Pro Ala Gly Val Arg Gly Gly Arg Ala Ala Ala Thr Phe Arg Ala  
                   35                  40                  45  
 Asn Asp His Gln His Ile Arg Tyr Asn Pro Leu Gln Asp Glu Trp Val  
                   50                  55                  60  
 Leu Val Ser Ala His Arg Met Lys Arg Pro Trp Gln Gly Gln Val Glu  
                   65                  70                  75                  80  
 Pro Gln Leu Leu Lys Thr Val Pro Arg His Asp Pro Leu Asn Pro Leu  
                                   85                  90                  95  
 Cys Pro Gly Ala Ile Arg Ala Asn Gly Glu Val Asn Pro Gln Tyr Asp  
                   100                  105                  110  
 Ser Thr Phe Leu Phe Asp Asn Asp Phe Pro Ala Leu Gln Pro Asp Ala  
                   115                  120                  125  
 Pro Ser Pro Gly Pro Ser Asp His Pro Leu Phe Gln Ala Lys Ser Ala  
                   130                  135                  140  
 Arg Gly Val Cys Lys Val Met Cys Phe His Pro Trp Ser Asp Val Thr  
                   145                  150                  155                  160  
 Leu Pro Leu Met Ser Val Pro Glu Ile Arg Ala Val Val Asp Ala Trp  
                   165                  170                  175  
 Ala Ser Val Thr Glu Glu Leu Gly Ala Gln Tyr Pro Trp Val Gln Ile  
                   180                  185                  190  
 Phe Glu Asn Lys Gly Ala Met Met Gly Cys Ser Asn Pro His Pro His  
                   195                  200                  205  
 Cys Gln Val Trp Ala Ser Ser Phe Leu Pro Asp Ile Ala Gln Arg Glu  
                   210                  215                  220  
 Glu Arg Ser Gln Gln Ala Tyr Lys Ser Gln His Gly Glu Pro Leu Leu  
                   225                  230                  235                  240  
 Met Glu Tyr Ser Arg Gln Ser Tyr Ser Gly Arg Asn Val Trp Ser  
                   245                  250                  255

&lt;210&gt; 456

&lt;211&gt; 278

&lt;212&gt; PRT



<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 456

Ser Pro Gln Trp Pro Leu Cys Ala Xaa Lys Ser Val Arg Val Pro Asn  
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Ile Ser Thr Val Arg Glu Val  
20 25 30

Ala Leu Leu Arg Arg Leu Glu Ala Phe Glu His Pro Asn Val Val Arg  
35 40 45

Leu Met Asp Val Cys Ala Thr Ser Arg Thr Asp Arg Glu Ile Lys Val  
50 55 60

Thr Leu Val Phe Glu His Val Asp Gln Asp Leu Arg Thr Tyr Leu Asp  
65 70 75 80

Lys Ala Pro Pro Pro Gly Leu Pro Ala Glu Thr Ile Lys Asp Leu Met  
85 90 95

Arg Gln Phe Leu Arg Gly Leu Asp Phe Leu His Ala Asn Cys Ile Val  
100 105 110

His Arg Asp Leu Lys Pro Glu Asn Ile Leu Val Thr Ser Gly Gly Thr  
115 120 125

Val Lys Leu Ala Asp Phe Gly Leu Ala Arg Ile Tyr Ser Tyr Gln Met  
130 135 140

Ala Leu Thr Pro Val Val Val Thr Leu Trp Tyr Arg Ala Pro Glu Val  
145 150 155 160

Leu Leu Gln Ser Thr Tyr Ala Thr Pro Val Asp Met Trp Ser Val Gly  
165 170 175

Cys Ile Phe Ala Glu Met Phe Arg Arg Lys Pro Leu Phe Cys Gly Asn  
180 185 190

Ser Glu Ala Asp Gln Leu Gly Lys Ile Phe Asp Leu Ile Gly Leu Pro  
195 200 205

Pro Glu Asp Asp Trp Pro Arg Asp Val Ser Leu Pro Arg Gly Ala Phe  
210 215 220

Pro Pro Arg Gly Pro Arg Pro Val Gln Ser Val Val Pro Glu Met Glu

225                      230                      235                      240  
Glu Ser Gly Ala Gln Leu Leu Leu Glu Met Leu Thr Phe Asn Pro His  
                         245                      250                      255  
Lys Arg Ile Ser Ala Phe Arg Ala Leu Gln His Ser Tyr Leu His Lys  
                         260                      265                      270  
Asp Glu Gly Asn Pro Glu  
                         275

<210> 457  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 457  
His Pro Gly Arg Glu Gln Gln Arg Ala Gly His Thr Thr Cys Gln Ala  
  1                          5                          10                          15  
Leu Gly Val Cys Gly Thr Met Ser Ser Pro Leu Gln Cys Ile His Ser  
                          20                          25                          30  
Pro Asp Leu  
                          35

<210> 458  
<211> 154  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (111)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (122)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (131)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 458

Arg Tyr Ser Val Ile Leu Leu Asp Thr Leu Leu Gly Arg Met Leu Pro  
1 5 10 15

Gln Leu Val Cys Arg Leu Val Leu Arg Cys Ser Met Asp Asp Ser Ala  
20 25 30

Gly Pro Arg Glu Trp Leu Pro Arg Asp Ser Glu Cys His Leu Cys Met  
35 40 45

Ser Val Thr Thr Gln Ala Gly Asn Ser Ser Glu Gln Ala Ile Pro Gln  
50 55 60

Ala Met Leu Gln Ala Cys Val Gly Ser Trp Leu Asp Arg Glu Lys Cys  
65 70 75 80

Lys Gln Phe Val Glu Gln His Thr Pro Gln Leu Leu Thr Leu Val Pro  
85 90 95

Arg Gly Trp Asp Ala His Thr Thr Cys Gln Ala Ser Gly Cys Xaa Gly  
100 105 110

Pro Cys Pro Ala Leu Ser Ser Val Ser Xaa Ala Pro Thr Phe Asp Glu  
115 120 125

Asn Ser Xaa Xaa Gln Ala Gly His Thr His Ser Pro Ser Leu Ala Leu  
130 135 140

Ile Leu Leu Ser Cys Lys Gly Lys Ala Lys  
145 150

<210> 459

<211> 396

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (370)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (395)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 459

Arg Val Ile Gly Ser Thr Val Xaa Arg Gly Leu Arg Pro Ser Cys Pro  
 1 5 10 15

Asn Ser Gln Ser Pro Val Lys Val Glu Glu Thr Cys Gly Cys Arg Trp  
 20 25 30

Thr Cys Pro Cys Val Cys Thr Gly Ser Ser Thr Arg His Ile Val Thr  
 35 40 45

Phe Asp Gly Gln Asn Phe Lys Leu Thr Gly Ser Cys Ser Tyr Val Leu  
 50 55 60

Phe Gln Asn Lys Glu Gln Asp Leu Glu Val Ile Leu His Asn Gly Ala  
 65 70 75 80

Cys Ser Pro Gly Ala Arg Gln Gly Cys Met Lys Ser Ile Glu Val Lys  
 85 90 95

His Ser Ala Leu Ser Val Glu Leu His Ser Asp Met Glu Val Thr Val  
 100 105 110

Asn Gly Arg Leu Val Ser Val Pro Tyr Val Gly Gly Asn Met Glu Val  
 115 120 125

Asn Val Tyr Gly Ala Ile Met His Glu Val Arg Phe Asn His Leu Gly  
 130 135 140

His Ile Phe Thr Phe Thr Pro Gln Asn Asn Glu Phe Gln Leu Gln Leu  
 145 150 155 160

Ser Pro Lys Thr Phe Ala Ser Lys Thr Tyr Gly Leu Cys Gly Ile Cys  
 165 170 175

Asp Glu Asn Gly Ala Asn Asp Phe Met Leu Arg Asp Gly Thr Val Thr  
 180 185 190

Thr Asp Trp Lys Thr Leu Val Gln Glu Trp Thr Val Gln Arg Pro Gly  
 195 200 205

Gln Thr Cys Gln Pro Ile Leu Glu Glu Gln Cys Leu Val Pro Asp Ser  
 210 215 220

Ser His Cys Gln Val Leu Leu Leu Pro Leu Phe Ala Glu Cys His Lys  
 225 230 235 240

Val Leu Ala Pro Ala Thr Phe Tyr Ala Ile Cys Gln Gln Asp Ser Cys  
245 250 255

His Gln Glu Gln Val Cys Glu Val Ile Ala Ser Tyr Ala His Leu Cys  
260 265 270

Arg Thr Asn Gly Val Cys Val Asp Trp Arg Thr Pro Asp Phe Cys Ala  
275 280 285

Met Ser Cys Pro Pro Ser Leu Val Tyr Asn His Cys Glu His Gly Cys  
290 295 300

Pro Arg His Cys Asp Gly Asn Val Ser Ser Cys Gly Asp His Pro Ser  
305 310 315 320

Glu Ala Val Ser Ala Leu Gln Ile Lys Ser Cys Trp Lys Ala Ala Val  
325 330 335

Ser Leu Lys Arg Pro Ala Leu Ser Ala Leu Val Arg Met Glu Ser Ser  
340 345 350

Thr Ser Ser Trp Lys Pro Gly Ser Arg Thr Thr Ser Pro Val Arg Ser  
355 360 365

Ala Xaa Ala Ser Ala Gly Gly Arg Ser Thr Ala Gln Arg Ser Pro Ala  
370 375 380

Pro Arg Pro Lys Leu Pro Arg Val Ala Cys Xaa Lys  
385 390 395

<210> 460

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 460

Glu Gln Leu Thr Gly Ser Arg Ala Lys Ser Val Gly Ser Trp Arg Arg  
1 5 10 15

Ser Ser Gln Ser Val Lys Lys Pro Thr Glu Gly Lys Ser Arg Glu Glu  
20 25 30

Glu Lys Lys Gln Lys Phe Trp His Leu Phe Pro Gly Cys Ala Lys Met  
35 40 45

Gly Asp Trp Ser Phe Leu Gly Asn Phe Leu Glu Glu Val His Lys His  
50 55 60

Ser Thr Val Val Gly Lys Val Trp Leu Thr Val Leu Phe Ile Phe Arg  
65 70 75 80

Met Leu Val Leu Gly Thr Ala Ala Glu Ser Ser Trp Gly Asp Glu Gln  
85 90 95

Ala Asp Phe Arg Cys Asp Thr Ile Gln Pro Gly Cys Gln Asn Val Xaa  
100 105 110

Xaa Asp Gln Ala Phe Pro Xaa Phe Pro His Xaa Leu  
115 120

<210> 461

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 461

Pro Ala Arg Trp Leu Leu Ser Thr Thr Met Ala Ser Thr Glu Gly Thr  
1 5 10 15

Cys Cys Pro Val Asn Trp Val Glu His Gln Asp Ser Cys Tyr Trp Phe  
20 25 30

Ser His Ser Gly Met Ser Trp Ala Glu Ala Glu Lys Tyr Cys Gln Leu  
           35                          40                          45

Lys Asn Ala His Leu Val Val Ile Lys Ser Arg Glu Glu Gln Val Arg  
           50                          55                          60

Ala Ser Trp Tyr Ser Val Pro Lys Thr Cys Xaa Ile  
       65                          70                          75

<210> 462  
 <211> 138  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (123)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (128)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 462  
 Leu Gly Pro Asn Lys Lys Lys Pro Ala Met Leu Leu Phe Leu Leu Ser  
       1                          5                          10                          15

Ala Leu Val Leu Leu Thr Gln Pro Leu Gly Tyr Leu Glu Ala Glu Met  
           20                          25                          30

Lys Thr Tyr Ser His Arg Thr Met Pro Ser Ala Cys Thr Leu Val Met  
           35                          40                          45

Cys Ser Ser Val Glu Ser Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly  
       50                          55                          60

Arg Xaa Gly Pro Arg Gly Glu Lys Gly Asp Pro Gly Leu Pro Gly Ala  
       65                          70                          75                          80

Ala Gly Gln Ala Gly Met Pro Gly Gln Ala Gly Pro Val Gly Pro Lys  
           85                          90                          95

Gly Asp Asn Gly Ser Val Gly Glu Pro Gly Pro Lys Gly Asp Thr Trp

100 105 110  
 Ala Lys Leu Asp Leu Gln Glu Leu Pro Val Xaa Leu Val Gln Leu Xaa  
 115 120 125  
 Glu Lys Val Pro Trp Gly Ser Lys Gly Thr  
 130 135

<210> 463  
 <211> 246  
 <212> PRT  
 <213> Homo sapiens

<400> 463  
 Gly Arg Gly Leu Arg Gly Pro Gly Asp Ser Arg Pro Arg His Leu Pro  
 1 5 10 15  
 Val Ala Cys His Leu Leu Arg Leu Arg Thr Pro His Leu Asp Arg Ala  
 20 25 30  
 Leu Pro Arg Arg Leu Pro Ser Gln Asp Tyr Thr Gly Gly Met Gly Ile  
 35 40 45  
 Val Asn Gly Ala Lys Trp Asn Pro Arg Thr Gly Thr Ile Asn Asp Phe  
 50 55 60  
 Ser Tyr Leu His Thr Asn Cys Leu Glu Leu Ser Phe Tyr Leu Gly Cys  
 65 70 75 80  
 Asp Lys Phe Pro His Glu Ser Glu Leu Pro Arg Glu Trp Glu Asn Asn  
 85 90 95  
 Lys Glu Ala Leu Leu Thr Phe Met Glu Gln Val His Arg Gly Ile Lys  
 100 105 110  
 Gly Val Val Thr Asp Glu Gln Gly Ile Pro Ile Ala Asn Ala Thr Ile  
 115 120 125  
 Ser Val Ser Gly Ile Asn His Gly Val Lys Thr Ala Ser Gly Gly Asp  
 130 135 140  
 Tyr Trp Arg Ile Leu Asn Pro Gly Glu Tyr Arg Val Thr Ala His Ala  
 145 150 155 160  
 Arg Gly Tyr Thr Pro Ser Ala Lys Thr Cys Asn Val Asp Tyr Asp Ile  
 165 170 175  
 Gly Ala Thr Gln Cys Asn Phe Ile Leu Ala Arg Ser Asn Trp Lys Arg  
 180 185 190



Ile Arg Glu Ile Met Ala Met Asn Gly Asn Arg Pro Ile Pro His Ile  
 195 200 205

Asp Pro Ser Arg Pro Met Thr Pro Gln Gln Arg Arg Leu Gln Gln Arg  
 210 215 220

Arg Leu Gln His Arg Leu Arg Phe Gly His Arg Cys Gly Cys Gly Ala  
 225 230 235 240

Ser Thr Pro Pro Pro Pro  
 245

<210> 464  
 <211> 232  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (223)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (225)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 464  
 Arg Asp Arg Ser Cys Arg Gly Pro Gly Arg Arg Ser Pro Ile Pro Ser  
 1 5 10 15

Pro Gln Val Leu Gly Thr Thr Trp Val Pro Arg Ala Gly Glu Met Val  
 20 25 30

Cys Gly Gly Phe Ala Cys Ser Lys Asn Ala Leu Cys Ala Leu Asn Val  
 35 40 45

Val Tyr Met Leu Val Ser Leu Leu Leu Ile Gly Val Ala Ala Trp Gly  
 50 55 60

Lys Gly Leu Gly Leu Val Ser Ser Ile His Ile Ile Gly Gly Val Ile  
 65 70 75 80

Ala Val Gly Val Phe Leu Leu Leu Ile Ala Val Ala Gly Leu Val Gly  
 85 90 95

Ala Val Asn His His Gln Val Leu Leu Phe Phe Tyr Met Ile Ile Leu  
 100 105 110



Ser Glu Gly Ala Arg Asn Ile Val Ala Ala Met Lys Ala His Gly Val  
                   100                  105                  110

Asp Lys Val Val Ala Cys Thr Ser Ala Phe Leu Leu Trp Asp Pro Thr  
                   115                  120                  125

Lys Val Pro Pro Arg Leu Gln Ala Val Thr Asp Asp His Ile Arg Met  
                   130                  135                  140

His Lys Val Leu Arg Glu Ser Gly Leu Lys Tyr Val Ala Val Met Pro  
                   145                  150                  155                  160

Pro His Ile Gly Asp Gln Pro Leu Thr Gly Ala Tyr Thr Val Thr Leu  
                   165                  170                  175

Asp Gly Arg Gly Pro Ser Arg Val Ile Ser Lys His Asp Leu Gly His  
                   180                  185                  190

Phe Met Leu Arg Cys Leu Thr Thr Asp Glu Tyr Asp Gly His Ser Thr  
                   195                  200                  205

Tyr Pro Ser His Gln Tyr Gln  
                   210                  215

<210> 466

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 466

Arg Thr Thr Ala Val Glu Leu Phe Val Lys Ala Gly Ser Asp Gly Ala  
       1                  5                  10                  15

Lys Ile Gly Asn Cys Pro Phe Ser Gln Arg Leu Phe Met Val Leu Trp

	20		25		30										
Leu	Lys	Gly	Val	Thr	Phe	Asn	Val	Thr	Thr	Val	Asp	Thr	Lys	Arg	Arg
	35		40		45										
Thr	Glu	Thr	Val	Gln	Lys	Leu	Cys	Pro	Gly	Gly	Gln	Leu	Pro	Phe	Leu
	50		55		60										
Leu	Tyr	Gly	Thr	Glu	Val	His	Thr	Asp	Thr	Asn	Lys	Ile	Glu	Glu	Phe
	65		70		75										80
Leu	Glu	Ala	Val	Leu	Cys	Pro	Pro	Arg	Tyr	Pro	Lys	Leu	Ala	Xaa	Leu
			85					90						95	
Xaa	Pro	Glu	Ser	Asn	Thr	Xaa	Gly	Leu	Asp	Ile	Phe	Ala	Lys	Phe	Ser
			100					105					110		
Ala	Tyr	Ile	Lys	Asn	Ser	Lys	Pro	Ser	Thr	Gln	Leu	Thr	Ile	Trp	Arg
		115					120					125			
Arg	Asp	Ser													
		130													

&lt;210&gt; 467

&lt;211&gt; 211

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 467

Gly	Leu	Trp	Ile	Ser	Met	Leu	Cys	Arg	Trp	Leu	Met	Trp	Met	Val	Met
1				5					10					15	
Asn	Tyr	Ser	Trp	Lys	Lys	Asn	Arg	Met	Trp	Arg	Lys	Asn	Arg	Ser	Phe
			20					25					30		
Tyr	Ala	Asn	Asn	His	Cys	Ile	Gly	Thr	Asp	Leu	Asn	Arg	Asn	Phe	Ala
		35					40					45			
Ser	Lys	His	Trp	Cys	Glu	Glu	Gly	Ala	Ser	Ser	Ser	Ser	Cys	Ser	Glu
		50				55					60				
Thr	Tyr	Cys	Gly	Leu	Tyr	Pro	Glu	Ser	Glu	Pro	Glu	Val	Lys	Ala	Val
	65				70				75					80	
Ala	Ser	Phe	Leu	Arg	Arg	Asn	Ile	Asn	Gln	Ile	Lys	Ala	Tyr	Ile	Ser
			85					90					95		
Met	His	Ser	Tyr	Ser	Gln	His	Ile	Val	Phe	Pro	Tyr	Ser	Tyr	Thr	Arg
			100					105					110		

Ser Lys Ser Lys Asp His Glu Glu Leu Ser Leu Val Ala Ser Glu Ala  
115 120 125

Val Arg Ala Ile Glu Lys Thr Ser Lys Asn Thr Arg Tyr Thr His Gly  
130 135 140

His Gly Ser Glu Thr Leu Tyr Leu Ala Pro Gly Gly Gly Asp Asp Trp  
145 150 155 160

Ile Tyr Asp Leu Gly Ile Lys Tyr Ser Phe Thr Ile Glu Leu Arg Asp  
165 170 175

Thr Gly Thr Tyr Gly Phe Leu Leu Pro Glu Arg Tyr Ile Lys Pro Thr  
180 185 190

Cys Arg Glu Ala Phe Ala Ala Val Ser Lys Ile Ala Trp His Val Ile  
195 200 205

Arg Asn Val  
210

<210> 468

<211> 159

<212> PRT

<213> Homo sapiens

<400> 468

Leu Pro Ser Leu Lys Gly Thr Lys Ala Gly Ala Pro Pro Arg Cys Gly  
1 5 10 15

Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser  
20 25 30

Phe Lys Val Thr Ser Arg Thr Gly Thr Leu Ala Ala Gln Ala Leu Arg  
35 40 45

Ala Arg Gly Pro Ser Gly Ala Ala Ala Met Arg Ser Met Ala Ser Gly  
50 55 60

Gly Gly Val Pro Thr Asp Glu Glu Gln Ala Thr Gly Leu Glu Arg Glu  
65 70 75 80

Ile Met Leu Ala Ala Lys Lys Gly Leu Asp Pro Tyr Asn Val Leu Ala  
85 90 95

Pro Lys Gly Ala Ser Gly Thr Arg Glu Asp Pro Asn Leu Val Pro Ser  
100 105 110

Ile Ser Asn Lys Arg Ile Val Gly Cys Ile Cys Glu Glu Asp Asn Thr  
 115 120 125

Ser Val Val Trp Phe Trp Leu His Lys Gly Glu Ala Gln Arg Cys Pro  
 130 135 140

Arg Cys Gly Ala His Tyr Lys Leu Val Pro Gln Gln Leu Ala His  
 145 150 155

<210> 469

<211> 58

<212> PRT

<213> Homo sapiens

<400> 469

Lys Phe Thr Lys Cys Leu Val Gln Leu Asn Ile Leu Leu Phe Lys Cys  
 1 5 10 15

Val Leu Leu Asn Phe Leu Leu Ser Leu Leu Asn Asn Leu Cys Gly Lys  
 20 25 30

Met Cys Val Ser Thr Phe Pro Ser Phe Phe Ile Ser Tyr Phe Gln Glu  
 35 40 45

Ser Asn Val Ala Ile Asn Cys Ile Leu Val  
 50 55

<210> 470

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 470

Cys Ser Gly Thr Trp Lys Lys His Asp Arg Lys Ile Ala Asp Gln Glu  
 1 5 10 15

Ile Trp Glu Arg Gly Met Ser Ile Asp Leu Ser Phe Phe Phe Phe  
 20 25 30

Phe Phe Phe Phe Phe Phe Phe Xaa  
 35 40

<210> 471  
<211> 60  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 471  
Gln Ala Gly Leu Ser Arg Tyr Gly Ser Pro Leu Gly Arg Arg Lys Lys  
1 5 10 15  
Gly Gly Ser Cys Leu Leu Pro Gly Glu Gly Leu Arg Gly Arg Gly Lys  
20 25 30  
Pro Arg Ala Pro Thr Lys Ala Asp Ile Asp Ser Gln Gly Leu Gly Leu  
35 40 45  
Lys Pro Gly Thr Val Xaa Leu Ser Gly Ser Tyr Trp  
50 55 60

<210> 472  
<211> 398  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (391)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 472  
Asn Gln Leu Ser Ser Ile Met Val Met Phe Lys Lys Ile Lys Ser Phe  
1 5 10 15  
Glu Val Val Phe Asn Asp Pro Glu Lys Val Tyr Gly Ser Gly Glu Lys  
20 25 30  
Val Ala Gly Arg Val Ile Val Glu Val Cys Glu Val Thr Arg Val Lys  
35 40 45  
Ala Val Arg Ile Leu Ala Cys Gly Val Ala Lys Val Leu Trp Met Gln  
50 55 60  
Gly Ser Gln Gln Cys Lys Gln Thr Ser Glu Tyr Leu Arg Tyr Glu Asp

65		70		75		80									
Thr	Leu	Leu	Leu	Glu	Asp	Gln	Pro	Thr	Gly	Glu	Asn	Glu	Met	Val	Ile
				85					90					95	
Met	Arg	Pro	Gly	Asn	Lys	Tyr	Glu	Tyr	Lys	Phe	Gly	Phe	Glu	Leu	Pro
			100					105					110		
Gln	Gly	Pro	Leu	Gly	Thr	Ser	Phe	Lys	Gly	Lys	Tyr	Gly	Cys	Val	Asp
		115					120					125			
Tyr	Trp	Val	Lys	Ala	Phe	Leu	Asp	Arg	Pro	Ser	Gln	Pro	Thr	Gln	Glu
	130					135					140				
Thr	Lys	Lys	Asn	Phe	Glu	Val	Val	Asp	Leu	Val	Asp	Val	Asn	Thr	Pro
145					150					155					160
Asp	Leu	Met	Ala	Pro	Val	Ser	Ala	Lys	Lys	Glu	Lys	Lys	Val	Ser	Cys
			165					170						175	
Met	Phe	Ile	Pro	Asp	Gly	Arg	Val	Ser	Val	Ser	Ala	Arg	Ile	Asp	Arg
		180					185						190		
Lys	Gly	Phe	Cys	Glu	Gly	Asp	Glu	Ile	Ser	Ile	His	Ala	Asp	Phe	Glu
	195						200					205			
Asn	Thr	Cys	Ser	Arg	Ile	Val	Val	Pro	Lys	Ala	Ala	Ile	Val	Ala	Arg
	210					215						220			
His	Thr	Tyr	Leu	Ala	Asn	Gly	Gln	Thr	Lys	Val	Leu	Thr	Gln	Lys	Leu
225					230					235					240
Ser	Ser	Val	Arg	Gly	Asn	His	Ile	Ile	Ser	Gly	Thr	Cys	Ala	Ser	Trp
			245						250					255	
Arg	Gly	Lys	Ser	Leu	Arg	Val	Gln	Lys	Ile	Arg	Pro	Ser	Ile	Leu	Gly
		260					265						270		
Cys	Asn	Ile	Leu	Arg	Val	Glu	Tyr	Ser	Leu	Leu	Ile	Tyr	Val	Ser	Val
	275						280					285			
Pro	Gly	Ser	Lys	Lys	Val	Ile	Leu	Asp	Leu	Pro	Leu	Val	Ile	Gly	Ser
	290					295					300				
Arg	Ser	Gly	Leu	Ser	Ser	Arg	Thr	Ser	Ser	Met	Ala	Ser	Arg	Thr	Ser
305					310					315					320
Ser	Glu	Met	Ser	Trp	Val	Asp	Leu	Asn	Ile	Pro	Asp	Thr	Pro	Glu	Ala
			325						330					335	
Pro	Pro	Cys	Tyr	Met	Asp	Val	Ile	Pro	Glu	Asp	His	Arg	Leu	Glu	Ser



340	345	350
Pro Thr Thr Pro Leu Leu Asp Asp Met Asp Gly Ser Gln Asp Ser Pro		
355	360	365
Ile Phe Met Tyr Ala Pro Glu Phe Lys Phe Met Pro Pro Pro Thr Tyr		
370	375	380
Thr Glu Val Gly Ser Leu Xaa Ser Leu Leu Leu Asn Leu Ser		
385	390	395

<210> 473  
 <211> 259  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (234)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 473
Lys Glu Ala Gly Ala Ala Thr Gly Pro Arg Ala Met Trp Leu Cys Pro
1 5 10 15
Leu Ala Leu Xaa Leu Ile Leu Met Ala Ala Ser Gly Ala Ala Cys Glu
20 25 30
Val Lys Asp Val Cys Val Gly Ser Pro Gly Ile Pro Gly Thr Pro Gly
35 40 45
Ser His Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Xaa Lys Gly Asp
50 55 60
Pro Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Glu Thr Pro Cys Pro
65 70 75 80
Pro Gly Asn Asn Gly Leu Pro Gly Ala Pro Gly Val Pro Gly Glu Arg
85 90 95

Gly Glu Lys Gly Glu Ala Gly Glu Arg Gly Pro Pro Gly Leu Pro Ala  
                   100                  105                  110  
 His Leu Asp Glu Glu Leu Gln Ala Thr Leu His Asp Phe Arg His Gln  
                   115                  120                  125  
 Ile Leu Gln Thr Arg Gly Ala Leu Ser Leu Gln Gly Ser Ile Met Thr  
                   130                  135                  140  
 Val Gly Glu Lys Val Phe Ser Ser Asn Gly Gln Ser Ile Thr Phe Asp  
                   145                  150                  155                  160  
 Ala Ile Gln Glu Ala Cys Ala Arg Ala Gly Gly Arg Ile Ala Val Pro  
                   165                  170                  175  
 Arg Asn Pro Glu Glu Asn Glu Ala Ile Ala Ser Phe Val Lys Lys Tyr  
                   180                  185                  190  
 Asn Thr Tyr Ala Tyr Val Gly Leu Thr Glu Gly Pro Ser Pro Gly Asp  
                   195                  200                  205  
 Phe Arg Tyr Ser Asp Gly Thr Pro Val Asn Tyr Thr Asn Trp Tyr Arg  
                   210                  215                  220  
 Gly Glu Pro Ala Gly Arg Gly Lys Glu Xaa Cys Val Glu Met Tyr Thr  
                   225                  230                  235                  240  
 Asp Gly Gln Trp Asn Asp Arg Asn Cys Leu Tyr Ser Arg Leu Thr Ile  
                   245                  250                  255  
 Cys Glu Phe

<210> 474  
 <211> 231  
 <212> PRT  
 <213> Homo sapiens

<400> 474  
 Gly Thr Val Pro Gly Lys Gly Gln Glu Tyr His Gly Met Gly Met Ser  
   1                  5                  10                  15  
 Ser Leu Lys Leu Leu Lys Tyr Val Leu Phe Phe Phe Asn Leu Leu Phe  
                   20                  25                  30  
 Trp Ile Cys Gly Cys Cys Ile Leu Gly Phe Gly Ile Tyr Leu Leu Ile  
                   35                  40                  45

His Asn Asn Phe Gly Val Leu Phe His Asn Leu Pro Ser Leu Thr Leu  
           50                          55                          60  
  
 Gly Asn Val Phe Val Ile Val Gly Ser Ile Ile Met Val Val Ala Phe  
       65                          70                          75                          80  
  
 Leu Gly Cys Met Gly Ser Ile Lys Glu Asn Lys Cys Leu Leu Met Ser  
                           85                          90                          95  
  
 Phe Phe Ile Leu Leu Leu Ile Ile Leu Leu Ala Glu Val Thr Leu Ala  
                           100                          105                          110  
  
 Ile Leu Leu Phe Val Tyr Glu Gln Lys Leu Asn Glu Tyr Val Ala Lys  
           115                          120                          125  
  
 Gly Leu Thr Asp Ser Ile His Arg Tyr His Ser Asp Asn Ser Thr Lys  
       130                          135                          140  
  
 Ala Ala Trp Asp Ser Ile Gln Ser Phe Leu Gln Cys Cys Gly Ile Asn  
       145                          150                          155                          160  
  
 Gly Thr Ser Asp Trp Thr Ser Gly Pro Pro Ala Ser Cys Pro Ser Asp  
                           165                          170                          175  
  
 Arg Lys Val Glu Gly Cys Tyr Ala Lys Ala Arg Leu Trp Phe His Ser  
           180                          185                          190  
  
 Asn Phe Leu Tyr Ile Gly Ile Ile Thr Ile Cys Val Cys Val Ile Glu  
           195                          200                          205  
  
 Val Leu Gly Met Ser Phe Ala Leu Thr Leu Asn Cys Gln Ile Asp Lys  
       210                          215                          220  
  
 Thr Ser Gln Thr Ile Gly Leu  
       225                          230

&lt;210&gt; 475

&lt;211&gt; 498

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 475

Gly	Thr	Ala	Asn	Glu	Ala	Pro	Trp	Xaa	Arg	Thr	Gln	Ser	Ser	Ala	Leu
1				5				10						15	

Ala	Gly	Pro	Ser	Arg	Ser	Arg	His	His	Gly	Phe	Leu	Gln	Ser	Ser	Ala
			20				25						30		

Gly	Gly	Ala	Ser	Thr	Leu	Gly	Leu	Pro	Ala	Ala	Arg	Gly	Lys	Asp	Phe
		35				40						45			

Asn	Val	Pro	Leu	Ser	Ile	Ser	Arg	Leu	Thr	Pro	Gly	Gly	Lys	Ala	Ala
	50					55					60				

Gln	Ala	Xaa	Val	Ala	Val	Gly	Asp	Trp	Val	Leu	Ser	Ile	Asp	Gly	Glu
65					70					75					80

Asn	Ala	Gly	Ser	Leu	Thr	His	Ile	Glu	Ala	Gln	Asn	Lys	Ile	Arg	Ala
				85					90					95	

Cys	Gly	Glu	Arg	Leu	Ser	Leu	Gly	Leu	Ser	Arg	Ala	Gln	Pro	Val	Gln
			100					105					110		

Ser	Lys	Pro	Gln	Lys	Ala	Xaa	Xaa	Leu	Pro	Cys	Pro	Pro	Ala	Leu	Pro
		115						120					125		

Gly	Cys	Val	Ser	Ala	Gln	Ala	Ser	Ala	Pro	Ala	Ala	Asp	Pro	Pro	Arg
	130					135						140			

Tyr	Thr	Phe	Ala	Pro	Ser	Val	Ser	Leu	Asn	Lys	Thr	Ala	Arg	Pro	Phe
145					150					155					160

Gly	Ala	Pro	Pro	Pro	Ala	Asp	Ser	Ala	Pro	Gln	Gln	Asn	Gly	Gln	Pro
				165					170					175	

Leu	Arg	Pro	Leu	Val	Pro	Asp	Ala	Ser	Lys	Gln	Arg	Leu	Met	Glu	Asn
			180					185					190		

Thr	Glu	Asp	Trp	Arg	Pro	Arg	Pro	Gly	Thr	Gly	Gln	Ser	Arg	Ser	Phe
		195					200					205			

Arg Ile Leu Ala His Leu Thr Gly Thr Glu Phe Met Gln Asp Pro Asp  
 210 215 220  
 Glu Glu His Leu Lys Lys Ser Ser Gln Val Pro Arg Thr Glu Ala Pro  
 225 230 235 240  
 Ala Pro Ala Ser Ser Thr Pro Gln Glu Pro Trp Pro Gly Pro Thr Ala  
 245 250 255  
 Pro Ser Pro Thr Ser Arg Pro Pro Trp Ala Val Asp Pro Ala Phe Ala  
 260 265 270  
 Glu Arg Tyr Ala Pro Asp Lys Thr Ser Thr Val Leu Thr Arg His Ser  
 275 280 285  
 Gln Pro Ala Thr Pro Thr Pro Leu Gln Ser Arg Thr Ser Ile Val Gln  
 290 295 300  
 Ala Ala Ala Gly Gly Val Pro Gly Gly Gly Ser Asn Asn Gly Lys Thr  
 305 310 315 320  
 Pro Val Cys His Gln Cys His Lys Val Ile Arg Gly Arg Tyr Leu Val  
 325 330 335  
 Ala Leu Gly His Ala Tyr His Pro Glu Glu Phe Val Cys Ser Gln Cys  
 340 345 350  
 Gly Lys Val Leu Glu Glu Gly Gly Phe Phe Glu Glu Lys Gly Ala Ile  
 355 360 365  
 Phe Cys Pro Pro Cys Tyr Asp Val Arg Tyr Ala Pro Ser Cys Ala Lys  
 370 375 380  
 Cys Lys Lys Lys Ile Thr Gly Glu Ile Met His Ala Leu Lys Met Thr  
 385 390 395 400  
 Trp His Val His Cys Phe Thr Cys Ala Ala Cys Lys Thr Pro Ile Arg  
 405 410 415  
 Asn Arg Ala Phe Tyr Met Glu Glu Gly Val Pro Tyr Cys Glu Arg Asp  
 420 425 430  
 Tyr Glu Lys Met Phe Gly Thr Lys Cys His Gly Cys Asp Phe Lys Ile  
 435 440 445  
 Asp Ala Gly Asp Arg Phe Leu Glu Ala Leu Gly Phe Ser Trp His Asp  
 450 455 460  
 Thr Cys Phe Val Cys Ala Ile Cys Gln Ile Asn Leu Glu Gly Lys Thr  
 465 470 475 480

Phe Tyr Ser Lys Lys Asp Arg Pro Leu Cys Lys Ser His Ala Phe Ser  
                   485                  490                  495

His Val

<210> 476  
 <211> 268  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (146)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (158)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (164)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 476  
 Gln Glu Ala Ala Ser Leu Gly Ala Val Thr Ser Cys Gly Gln Glu Ser  
   1                  5                  10                  15  
 Leu Ser Arg Ala Ser Pro Arg Ser Leu Ser Arg Phe Leu Leu Thr Ala  
                   20                  25                  30  
 His Pro Pro Ala Ala Ala Met Arg His Leu Gly Ala Phe Leu Phe Leu  
                   35                  40                  45  
 Leu Gly Val Leu Gly Ala Leu Thr Glu Met Cys Glu Ile Pro Glu Met  
   50                  55                  60  
 Asp Ser His Leu Val Glu Lys Leu Gly Gln His Leu Leu Pro Trp Met  
   65                  70                  75                  80  
 Asp Arg Leu Ser Leu Glu His Leu Asn Pro Ser Ile Tyr Val Gly Leu  
                   85                  90                  95  
 Arg Leu Ser Ser Leu Gln Ala Gly Thr Lys Glu Asp Leu Tyr Leu His  
                   100                  105                  110

Ser Leu Lys Leu Gly Tyr Gln Gln Cys Leu Leu Gly Ser Ala Phe Ser  
 115 120 125  
 Glu Asp Asp Gly Asp Cys Gln Gly Lys Pro Ser Met Gly Gln Leu Ala  
 130 135 140  
 Ser Xaa Leu Leu Ala Leu Arg Ala Asn Cys Glu Phe Val Xaa Gly His  
 145 150 155 160  
 Lys Gly Asp Xaa Leu Val Ser Gln Leu Lys Trp Phe Leu Glu Asp Glu  
 165 170 175  
 Lys Arg Ala Ile Gly His Asp His Lys Gly His Pro His Thr Ser Tyr  
 180 185 190  
 Tyr Gln Tyr Gly Leu Gly Ile Leu Ala Leu Cys Leu His Gln Lys Arg  
 195 200 205  
 Val His Asp Ser Val Val Asp Lys Leu Leu Tyr Ala Val Glu Pro Phe  
 210 215 220  
 His Gln Gly His His Ser Val Asp Thr Ala Ala Met Ala Gly Leu Ala  
 225 230 235 240  
 Phe Thr Cys Leu Lys Arg Ser Asn Phe Asn Pro Gly Arg Arg His Gly  
 245 250 255  
 Ser Pro Trp Pro Ser Glu Gln Cys Glu Arg Arg Ser  
 260 265

&lt;210&gt; 477

&lt;211&gt; 549

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (217)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (224)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 477

Ile Leu Glu Phe Pro Val Glu Glu Gln Asp Arg Val Leu Ser Phe Arg  
 1 5 10 15

Cys Gln Ala Arg Ile Ile Ser Gly Ile His Met Gln Thr Ser Glu Ser  
                   20                  25                  30  
 Thr Lys Ser Glu Leu Val Thr Val Thr Glu Ser Phe Ser Thr Pro Lys  
                   35                  40                  45  
 Phe His Ile Ser Pro Thr Gly Met Ile Met Glu Gly Ala Gln Leu His  
                   50                  55                  60  
 Ile Lys Cys Thr Ile Gln Val Thr His Leu Ala Gln Glu Phe Pro Glu  
                   65                  70                  75                  80  
 Ile Ile Ile Gln Lys Asp Lys Ala Ile Val Ala His Asn Arg His Gly  
                   85                  90                  95  
 Asn Lys Ala Val Tyr Ser Val Met Ala Met Val Glu His Ser Gly Asn  
                   100                  105                  110  
 Tyr Thr Cys Lys Val Glu Ser Ser Arg Ile Ser Lys Val Ser Ser Ile  
                   115                  120                  125  
 Val Val Asn Ile Thr Glu Leu Phe Ser Lys Pro Glu Leu Glu Ser Ser  
                   130                  135                  140  
 Phe Thr His Leu Asp Gln Gly Glu Arg Leu Asn Leu Ser Cys Ser Ile  
                   145                  150                  155                  160  
 Pro Gly Ala Pro Pro Ala Asn Phe Thr Ile Gln Lys Glu Asp Thr Ile  
                   165                  170                  175  
 Val Ser Gln Thr Gln Asp Phe Thr Lys Ile Ala Ser Lys Ser Asp Ser  
                   180                  185                  190  
 Gly Thr Tyr Ile Cys Thr Ala Gly Ile Asp Lys Val Val Lys Lys Ser  
                   195                  200                  205  
 Asn Thr Val Gln Ile Val Val Cys Xaa Met Leu Ser Gln Pro Arg Xaa  
                   210                  215                  220  
 Ser Tyr Asp Ala Gln Phe Glu Val Ile Lys Gly Gln Thr Ile Glu Val  
                   225                  230                  235                  240  
 Arg Cys Glu Ser Ile Ser Gly Thr Leu Pro Ile Ser Tyr Gln Leu Leu  
                   245                  250                  255  
 Lys Thr Ser Lys Val Leu Glu Asn Ser Thr Lys Asn Ser Asn Asp Pro  
                   260                  265                  270  
 Ala Val Phe Lys Asp Asn Pro Thr Glu Asp Val Glu Tyr Gln Cys Val  
                   275                  280                  285



Ala Asp Asn Cys His Ser His Ala Lys Met Leu Ser Glu Val Leu Arg  
290 295 300

Val Lys Val Ile Ala Pro Val Asp Glu Val Gln Ile Ser Ile Leu Ser  
305 310 315 320

Ser Lys Val Val Glu Ser Gly Glu Asp Ile Val Leu Gln Cys Ala Val  
325 330 335

Asn Glu Gly Ser Gly Pro Ile Thr Tyr Lys Phe Tyr Arg Glu Lys Glu  
340 345 350

Gly Lys Pro Phe Tyr Gln Met Thr Ser Asn Ala Thr Gln Ala Phe Trp  
355 360 365

Thr Lys Gln Lys Ala Ser Lys Glu Gln Glu Gly Glu Tyr Tyr Cys Thr  
370 375 380

Ala Phe Asn Arg Ala Asn His Ala Ser Ser Val Pro Arg Ser Lys Ile  
385 390 395 400

Leu Thr Val Arg Val Ile Leu Ala Pro Trp Lys Lys Gly Leu Ile Ala  
405 410 415

Val Val Ile Ile Gly Val Ile Ile Ala Leu Leu Ile Ile Ala Ala Lys  
420 425 430

Cys Tyr Phe Leu Arg Lys Ala Lys Ala Lys Gln Met Pro Val Glu Met  
435 440 445

Ser Arg Pro Ala Val Pro Leu Leu Asn Ser Asn Asn Glu Lys Met Ser  
450 455 460

Asp Pro Asn Met Glu Ala Asn Ser His Tyr Gly His Asn Asp Asp Val  
465 470 475 480

Arg Asn His Ala Met Lys Pro Ile Asn Asp Asn Lys Glu Pro Leu Asn  
485 490 495

Ser Asp Val Gln Tyr Thr Glu Val Gln Val Ser Ser Ala Glu Ser His  
500 505 510

Lys Asp Leu Gly Lys Lys Asp Thr Glu Thr Val Tyr Ser Glu Val Arg  
515 520 525

Lys Ala Val Pro Asp Ala Val Glu Ser Arg Tyr Ser Arg Thr Glu Gly  
530 535 540

Ser Leu Asp Gly Thr  
545

&lt;210&gt; 478

&lt;211&gt; 364

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 478

Gly Arg Val Gly Gly Arg Val Gly Gly Pro Trp Val Ala Ala Thr Ser  
1 5 10 15

Ala Asp Pro Glu Arg Lys Ser Gln Ala Ala Ser Ala Ala Met Trp Ala  
20 25 30

Thr Leu Pro Leu Leu Cys Ala Gly Ala Trp Leu Leu Gly Val Pro Val  
35 40 45

Cys Gly Ala Ala Glu Leu Ser Val Asn Ser Leu Glu Lys Phe His Phe  
50 55 60

Lys Ser Trp Met Ser Lys His Arg Lys Thr Tyr Ser Thr Glu Glu Tyr  
65 70 75 80

His His Arg Leu Gln Thr Phe Ala Ser Asn Trp Arg Lys Ile Asn Ala  
85 90 95

His Asn Asn Gly Asn His Thr Phe Lys Met Ala Leu Asn Gln Phe Ser  
100 105 110

Asp Met Ser Phe Ala Glu Ile Lys His Lys Tyr Leu Trp Ser Glu Pro  
115 120 125

Gln Asn Cys Ser Ala Thr Lys Ser Asn Tyr Leu Arg Gly Thr Gly Pro  
130 135 140

Tyr Pro Pro Ser Val Asp Trp Arg Lys Lys Gly Asn Phe Val Ser Pro  
145 150 155 160

Val Lys Asn Gln Gly Ala Cys Gly Ser Cys Trp Thr Phe Ser Thr Thr  
165 170 175

Gly Ala Leu Glu Ser Ala Ile Ala Ile Ala Thr Gly Lys Met Leu Ser  
180 185 190

Leu Ala Glu Gln Gln Leu Val Asp Cys Ala Gln Asp Phe Asn Asn His  
195 200 205

Gly Cys Gln Gly Gly Leu Pro Ser Gln Ala Phe Glu Tyr Ile Leu Tyr  
210 215 220

Asn Lys Gly Ile Met Gly Glu Asp Thr Tyr Pro Tyr Gln Gly Lys Asp

225                      230                      235                      240  
 Gly Tyr Cys Lys Phe Gln Pro Gly Lys Ala Ile Gly Phe Val Lys Asp  
                                  245                      250                      255  
 Val Ala Asn Ile Thr Ile Tyr Asp Glu Glu Ala Met Val Glu Ala Val  
                                  260                      265                      270  
 Ala Leu Tyr Asn Pro Val Ser Phe Ala Phe Glu Val Thr Gln Asp Phe  
                                  275                      280                      285  
 Met Met Tyr Arg Thr Gly Ile Tyr Ser Ser Thr Ser Cys His Lys Thr  
                                  290                      295                      300  
 Pro Asp Lys Val Asn His Ala Val Leu Ala Val Gly Tyr Gly Glu Lys  
 305                                   310                      315                      320  
 Asn Gly Ile Pro Tyr Trp Ile Val Lys Asn Ser Trp Gly Pro Gln Trp  
                                  325                      330                      335  
 Gly Met Asn Gly Tyr Phe Leu Ile Glu Arg Gly Lys Asn Met Cys Gly  
                                  340                      345                      350  
 Leu Ala Ala Cys Ala Ser Tyr Pro Ile Pro Leu Val  
                                  355                      360

<210> 479

<211> 451

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (266)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (388)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 479

Ser Thr His Ala Ser Ala His Ala Ser Ala Ala Thr Gln Ser Cys Asn  
 1                      5                      10                      15

Leu Ser Leu Ala Met Ala Pro Ser Ser Pro Arg Pro Ala Leu Pro Ala  
                   20                  25                  30

Leu Leu Val Leu Leu Gly Ala Leu Phe Pro Gly Pro Gly Asn Ala Gln  
                   35                  40                  45

Thr Ser Val Ser Pro Ser Lys Val Ile Leu Pro Arg Gly Gly Ser Val  
           50                  55                  60

Leu Val Thr Cys Ser Thr Ser Cys Asp Gln Pro Lys Leu Leu Gly Ile  
   65                          70                  75                  80

Glu Thr Pro Leu Pro Lys Lys Glu Leu Leu Leu Pro Gly Asn Asn Arg  
                   85                  90                  95

Lys Val Tyr Glu Leu Ser Asn Val Gln Glu Asp Ser Gln Pro Met Cys  
                  100                 105                 110

Tyr Ser Asn Cys Pro Asp Gly Gln Ser Thr Ala Lys Thr Phe Leu Thr  
          115                 120                 125

Val Tyr Trp Thr Pro Glu Arg Val Glu Leu Ala Pro Leu Pro Ser Trp  
   130                 135                 140

Gln Pro Val Gly Lys Asn Leu Thr Leu Arg Cys Gln Val Glu Gly Gly  
  145                 150                 155                 160

Ala Pro Arg Ala Asn Leu Thr Val Val Leu Leu Arg Gly Glu Lys Glu  
                  165                 170                 175

Leu Lys Arg Glu Pro Ala Val Gly Glu Pro Ala Glu Val Thr Thr Thr  
                  180                 185                 190

Val Leu Val Arg Arg Asp His His Gly Ala Asn Phe Ser Cys Arg Thr  
          195                 200                 205

Glu Leu Asp Leu Arg Pro Gln Gly Leu Glu Leu Phe Glu Asn Thr Ser  
   210                 215                 220

Ala Pro Tyr Gln Leu Gln Thr Phe Val Leu Pro Ala Thr Pro Pro Gln  
  225                 230                 235                 240

Leu Val Ser Pro Arg Val Leu Glu Val Asp Thr Gln Gly Thr Val Val  
                  245                 250                 255

Cys Ser Leu Asp Gly Leu Phe Pro Val Xaa Glu Ala Gln Val Xaa Leu  
                  260                 265                 270

Ala Leu Gly Asp Gln Arg Leu Asn Pro Thr Val Thr Tyr Gly Asn Asp  
   275                 280                 285

Ser Phe Ser Ala Lys Ala Ser Val Ser Val Thr Ala Glu Asp Glu Gly  
 290 295 300  
 Thr Gln Arg Leu Thr Cys Ala Val Ile Leu Gly Asn Gln Ser Gln Glu  
 305 310 315 320  
 Thr Leu Gln Thr Val Thr Ile Tyr Ser Phe Pro Ala Pro Asn Val Ile  
 325 330 335  
 Leu Thr Lys Pro Glu Val Ser Glu Gly Thr Glu Val Thr Val Lys Cys  
 340 345 350  
 Glu Ala His Pro Arg Ala Lys Val Thr Leu Asn Gly Val Pro Ala Gln  
 355 360 365  
 Pro Leu Gly Pro Arg Ala Ser Cys Leu Leu Lys Ala Thr Pro Glu Asp  
 370 375 380  
 Asn Gly Arg Xaa Ser Pro Ala Leu Gln Pro Trp Arg Trp Pro Ala Ser  
 385 390 395 400  
 Leu Tyr Thr Arg Thr Arg Pro Gly Ser Phe Val Ser Cys Met Ala Pro  
 405 410 415  
 Asp Trp Thr Arg Gly Ile Val Arg Glu Thr Gly Arg Gly Gln Lys Ile  
 420 425 430  
 Pro Ser Arg Leu Gln Cys Ala Arg Leu Gly Gly Thr His Cys Pro Ser  
 435 440 445  
 Ser Ser Val  
 450

&lt;210&gt; 480

&lt;211&gt; 278

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 480

Gly Tyr Cys Thr His Pro Ser Phe Ile Ser Leu Gln His Leu Phe Leu  
 1 5 10 15  
 Glu Gly Val Asn Thr Asn Ser Ser Asp Leu Gly Ser Leu Pro Glu Lys  
 20 25 30  
 Met Gln Pro Phe Leu Leu Leu Leu Ala Phe Leu Leu Thr Pro Gly Ala  
 35 40 45

Gly Thr Glu Glu Ile Ile Gly Gly His Glu Ala Lys Pro His Ser Arg  
 50 55 60  
 Pro Tyr Met Ala Phe Val Gln Phe Leu Gln Glu Lys Ser Arg Lys Arg  
 65 70 75 80  
 Cys Gly Gly Ile Leu Val Arg Lys Asp Phe Val Leu Thr Ala Ala His  
 85 90 95  
 Cys Gln Gly Ser Ser Ile Asn Val Thr Leu Gly Ala His Asn Ile Lys  
 100 105 110  
 Glu Gln Glu Arg Thr Gln Gln Phe Ile Pro Val Lys Arg Pro Ile Pro  
 115 120 125  
 His Pro Ala Tyr Asn Pro Lys Asn Phe Ser Asn Asp Ile Met Leu Leu  
 130 135 140  
 Gln Leu Glu Arg Lys Ala Lys Trp Thr Thr Ala Val Arg Pro Leu Arg  
 145 150 155 160  
 Leu Pro Ser Ser Lys Ala Gln Val Lys Pro Gly Gln Leu Cys Ser Val  
 165 170 175  
 Ala Gly Trp Gly Tyr Val Ser Met Ser Thr Leu Ala Thr Thr Leu Gln  
 180 185 190  
 Glu Val Leu Leu Thr Val Gln Lys Asp Cys Gln Cys Glu Arg Leu Phe  
 195 200 205  
 His Gly Asn Tyr Ser Arg Ala Thr Glu Ile Cys Val Gly Asp Pro Lys  
 210 215 220  
 Lys Thr Gln Thr Gly Phe Lys Gly Asp Ser Gly Gly Pro Leu Val Cys  
 225 230 235 240  
 Lys Asp Val Ala Gln Gly Ile Leu Ser Tyr Gly Asn Lys Lys Gly Thr  
 245 250 255  
 Pro Pro Gly Val Tyr Ile Lys Val Ser His Phe Leu Pro Trp Ile Lys  
 260 265 270  
 Arg Thr Met Lys Arg Leu  
 275

&lt;210&gt; 481

&lt;211&gt; 119

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (79)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 481

Asn Ser Leu Ser Pro Ser Pro Trp Ser His Trp Leu Ser Ala Ala Ala  
 1 5 10 15

Pro Leu Leu Gln Arg Ser Ala Arg Ala Phe Ser Val Val Ile Glu Thr  
 20 25 30

Leu Leu Met Asp Thr Pro Ser Ser Tyr Glu Ala Ala Met Glu Leu Phe  
 35 40 45

Ser Pro Asp Gln Asp Met Arg Glu Ala Gly Ala Gln Leu Lys Lys Leu  
 50 55 60

Val Asp Thr Leu Pro Gln Lys Pro Arg Glu Ser Ile Ile Lys Xaa Met  
 65 70 75 80

Gly Lys Asn Ser Pro Lys Leu Thr Val Leu Ile Arg His Phe Arg Lys  
 85 90 95

Leu Glu Asp Pro Pro Thr Gly Ser Ser Leu Leu Pro Leu Pro Trp Phe  
 100 105 110

Leu Glu Phe His Gly Pro Pro  
 115

&lt;210&gt; 482

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 482

Lys Val Arg Leu Xaa Val Pro Xaa Arg Asn Ser Arg Val Asp Pro Arg  
 1 5 10 15

Val Arg Glu His Ser Thr Cys Ser Lys Met Asp Val Gly Ser Lys Glu  
                   20                  25                  30  
 Val Leu Met Glu Ser Pro Pro Asp Tyr Ser Ala Ala Pro Arg Gly Arg  
                   35                  40                  45  
 Phe Gly Ile Pro Cys Cys Pro Val His Leu Lys Arg Leu Leu Ile Val  
                   50                  55                  60  
 Val Val Val Val Val Leu Ile Val Val Val Ile Val Gly Ala Leu Leu  
                   65                  70                  75                  80  
 Met Gly Leu His Met Ser Gln Lys His Thr Glu Met Val Leu Glu Met  
                   85                  90                  95  
 Ser Ile Gly Ala Pro Glu Ala Gln Gln Arg Leu Ala Leu Ser Glu His  
                   100                  105                  110  
 Leu Val Thr Thr Ala Thr Phe Ser Ile Gly Ser Thr Gly Leu Val Val  
                   115                  120                  125  
 Tyr Asp Tyr Gln Gln Leu Leu Ile Ala Tyr Lys Pro Ala Pro Gly Thr  
                   130                  135                  140  
 Cys Cys Tyr Ile Met Lys Ile Ala Pro Glu Ser Ile Pro Ser Leu Glu  
                   145                  150                  155                  160  
 Ala Leu Thr Arg Lys Val His Asn Phe Gln Ala Lys Pro Ala Val Pro  
                   165                  170                  175  
 Thr Ser Lys Leu Gly Gln Ala Glu Gly Arg Asp Ala Gly Ser Ala Pro  
                   180                  185                  190  
 Ser Gly Gly Asp Pro Ala Phe Leu Gly Met Ala Val Ser Thr Leu Cys  
                   195                  200                  205  
 Gly Glu Val Pro Leu Tyr Tyr Ile  
                   210                  215

&lt;210&gt; 483

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 483

Gly Ser Gln Glu Met Thr Ala Asp Leu Ser Pro Glu Gly Phe Met Leu  
           1                  5                  10                  15



Gly Val Glu Gly Ile Leu Leu Arg Leu Leu Gly Tyr Gln Glu Thr Gln  
                   20                  25                  30

Pro Phe Pro Cys Glu Tyr Leu Ile Leu Leu Leu Val Ser Val Gln Leu  
           35                  40                  45

Leu Leu Asn Asn Arg Gln His Glu Glu  
       50                  55

<210> 484

<211> 332

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (204)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 484

Leu Ala Cys Val Ser Pro Trp Met Asp Met Trp Thr Ala Leu Leu Ile  
   1                  5                  10                  15

Leu Gln Ala Leu Leu Leu Pro Ser Leu Ala Asp Gly Ala Thr Pro Ala  
           20                  25                  30

Leu Arg Phe Val Ala Val Gly Asp Trp Gly Gly Val Pro Asn Ala Pro  
           35                  40                  45

Phe His Thr Ala Arg Glu Met Ala Asn Ala Lys Glu Ile Ala Arg Thr  
           50                  55                  60

Val Gln Ile Leu Gly Ala Asp Phe Ile Leu Ser Leu Gly Asp Asn Phe  
       65                  70                  75                  80

Tyr Phe Thr Gly Val Gln Asp Ile Asn Asp Lys Arg Phe Gln Glu Thr  
           85                  90                  95

Phe Glu Asp Val Phe Ser Asp Arg Ser Leu Arg Lys Val Pro Trp Tyr  
           100                  105                  110

Val Leu Ala Gly Asn His Asp His Leu Gly Asn Val Ser Ala Gln Ile  
           115                  120                  125

Ala Tyr Ser Lys Ile Ser Lys Arg Trp Asn Phe Pro Ser Pro Phe Tyr  
           130                  135                  140

Arg Leu His Phe Lys Ile Pro Gln Thr Asn Val Ser Val Ala Ile Phe  
       145                  150                  155                  160

Met Leu Asp Thr Val Thr Leu Cys Gly Asn Ser Asp Asp Phe Leu Ser  
165 170 175

Gln Gln Pro Glu Arg Pro Arg Asp Val Lys Leu Ala Arg Thr Gln Leu  
180 185 190

Ser Trp Leu Lys Lys Gln Leu Ala Ala Ala Arg Xaa Asp Tyr Val Leu  
195 200 205

Val Ala Gly His Tyr Pro Val Trp Ser Ile Ala Glu His Gly Pro Thr  
210 215 220

His Cys Leu Val Lys Gln Leu Arg Pro Leu Leu Ala Thr Tyr Gly Val  
225 230 235 240

Thr Ala Tyr Leu Cys Gly His Asp His Asn Leu Gln Tyr Leu Gln Asp  
245 250 255

Glu Asn Gly Val Gly Tyr Val Leu Ser Gly Ala Gly Asn Phe Met Asp  
260 265 270

Pro Ser Lys Arg His Gln Arg Lys Val Pro Asn Gly Tyr Leu Arg Phe  
275 280 285

His Tyr Gly Thr Glu Asp Ser Leu Gly Gly Phe Ala Tyr Val Glu Ile  
290 295 300

Ser Ser Lys Glu Met Thr Val Thr Tyr Ile Glu Ala Ser Gly Lys Ser  
305 310 315 320

Leu Phe Lys Thr Arg Leu Pro Arg Arg Ala Arg Pro  
325 330

<210> 485

<211> 431

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (264)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 485

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Ser Thr Ser Arg Ala Cys Pro Glu Leu Arg Gly Ser Glu Asp Leu Ser
 1           5           10           15

Thr Met Glu Arg Ala Ser Cys Leu Leu Leu Leu Leu Leu Pro Leu Val
          20           25           30

His Val Ser Ala Thr Thr Pro Glu Pro Cys Glu Leu Asp Asp Glu Asp
          35           40           45

Phe Arg Cys Val Cys Asn Phe Ser Glu Pro Gln Pro Asp Trp Ser Glu
          50           55           60

Ala Phe Gln Cys Val Ser Ala Val Glu Val Glu Ile His Ala Gly Gly
 65           70           75           80

Leu Asn Leu Glu Pro Phe Leu Lys Arg Val Asp Ala Asp Ala Asp Pro
          85           90           95

Arg Gln Tyr Ala Asp Thr Val Lys Ala Leu Arg Val Arg Arg Leu Thr
          100          105          110

Val Gly Ala Ala Gln Val Pro Ala Gln Leu Leu Val Gly Ala Leu Arg
          115          120          125

Val Leu Ala Tyr Ser Arg Leu Lys Glu Leu Thr Leu Glu Asp Leu Lys
          130          135          140

Ile Thr Gly Thr Met Pro Pro Leu Pro Leu Glu Ala Thr Gly Leu Ala
          145          150          155          160

Leu Ser Ser Leu Arg Leu Arg Asn Val Ser Trp Ala Thr Gly Arg Ser
          165          170          175

Trp Leu Ala Glu Leu Gln Gln Trp Leu Lys Pro Gly Leu Lys Val Leu
          180          185          190

Ser Ile Ala Gln Ala His Ser Pro Ala Phe Ser Cys Glu Gln Val Arg
          195          200          205

Ala Phe Pro Ala Leu Thr Ser Leu Asp Leu Ser Asp Asn Pro Gly Leu
          210          215          220

Gly Glu Arg Gly Leu Met Ala Ala Leu Cys Pro His Lys Phe Pro Ala
          225          230          235          240

Ile Gln Asn Leu Ala Leu Arg Asn Thr Gly Met Glu Thr Pro Thr Gly
          245          250          255

Val Cys Ala Ala Leu Ala Xaa Xaa Gly Val Gln Pro His Ser Leu Asp
          260          265          270

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Leu Ser His Asn Ser Leu Arg Ala Thr Val Asn Pro Ser Ala Pro Arg  
           275                          280                          285  
 Cys Met Trp Ser Ser Ala Leu Asn Ser Leu Asn Leu Ser Phe Ala Gly  
           290                          295                          300  
 Leu Glu Gln Val Pro Lys Gly Leu Pro Ala Lys Leu Arg Val Leu Asp  
 305                          310                          315                          320  
 Leu Ser Cys Asn Arg Leu Asn Arg Ala Pro Gln Pro Asp Glu Leu Pro  
                           325                          330                          335  
 Glu Val Asp Asn Leu Thr Leu Asp Gly Asn Pro Phe Leu Val Pro Gly  
                           340                          345                          350  
 Thr Ala Leu Pro His Glu Gly Ser Met Asn Ser Gly Val Val Pro Ala  
           355                          360                          365  
 Cys Ala Arg Ser Thr Leu Ser Val Gly Val Ser Gly Thr Leu Val Leu  
           370                          375                          380  
 Leu Gln Gly Ala Arg Ala Leu Pro Lys Ile Gln Asp Arg Ile Met Asn  
 385                          390                          395                          400  
 Gly Leu Lys Leu Pro Trp Leu Gln Gly Ser Pro Val Arg Thr Leu Arg  
                           405                          410                          415  
 Thr Phe Arg Pro Ile Gln Pro Phe Ala Pro Pro Leu Leu Lys Ser  
           420                          425                          430

&lt;210&gt; 486

&lt;211&gt; 510

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (145)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 486

His Glu Glu Thr Gln Ser Phe Ser Ser Ala Lys Met Lys His Ser Leu  
   1                          5                          10                          15

Asn Ala Leu Leu Ile Phe Leu Ile Ile Thr Ser Ala Trp Gly Gly Ser  
           20                          25                          30

Lys Gly Pro Leu Asp Gln Leu Glu Lys Gly Gly Glu Thr Ala Gln Ser

	35					40					45					
Ala	Asp	Pro	Gln	Trp	Glu	Gln	Leu	Asn	Asn	Lys	Asn	Leu	Ser	Met	Pro	
	50					55					60					
Leu	Leu	Pro	Ala	Asp	Phe	His	Lys	Glu	Asn	Thr	Val	Thr	Asn	Asp	Trp	
65					70					75					80	
Ile	Pro	Glu	Gly	Glu	Glu	Asp	Asp	Asp	Tyr	Leu	Asp	Leu	Glu	Lys	Ile	
				85					90					95		
Phe	Ser	Glu	Asp	Asp	Asp	Tyr	Ile	Asp	Ile	Val	Asp	Ser	Leu	Ser	Val	
			100					105					110			
Ser	Pro	Thr	Asp	Ser	Asp	Val	Ser	Ala	Gly	Asn	Ile	Leu	Gln	Leu	Phe	
			115				120					125				
His	Gly	Lys	Ser	Arg	Ile	Gln	Arg	Leu	Asn	Ile	Leu	Asn	Ala	Lys	Phe	
	130					135					140					
Xaa	Phe	Asn	Leu	Tyr	Arg	Val	Leu	Lys	Asp	Gln	Val	Asn	Thr	Phe	Asp	
145					150					155					160	
Asn	Ile	Phe	Ile	Ala	Pro	Val	Gly	Ile	Ser	Thr	Ala	Met	Gly	Met	Ile	
				165					170					175		
Ser	Leu	Gly	Leu	Lys	Gly	Glu	Thr	His	Glu	Gln	Val	His	Ser	Ile	Leu	
			180					185					190			
His	Phe	Lys	Asp	Phe	Val	Asn	Ala	Ser	Ser	Lys	Tyr	Glu	Ile	Thr	Thr	
		195					200					205				
Ile	His	Asn	Leu	Phe	Arg	Lys	Leu	Thr	His	Arg	Leu	Phe	Arg	Arg	Asn	
	210					215					220					
Phe	Gly	Tyr	Thr	Leu	Arg	Ser	Val	Asn	Asp	Leu	Tyr	Ile	Gln	Lys	Gln	
225					230					235					240	
Phe	Pro	Ile	Leu	Leu	Asp	Phe	Lys	Thr	Lys	Val	Arg	Glu	Tyr	Tyr	Phe	
				245					250					255		
Ala	Glu	Ala	Gln	Ile	Ala	Asp	Phe	Ser	Asp	Pro	Ala	Phe	Ile	Ser	Lys	
			260					265					270			
Thr	Asn	Asn	His	Ile	Met	Lys	Leu	Thr	Lys	Gly	Leu	Ile	Lys	Asp	Ala	
		275					280					285				
Leu	Glu	Asn	Ile	Asp	Pro	Ala	Thr	Gln	Met	Met	Ile	Leu	Asn	Cys	Ile	
	290					295					300					
Tyr	Phe	Lys	Gly	Ser	Trp	Val	Asn	Lys	Phe	Pro	Val	Glu	Met	Thr	His	

305		310		315		320
Asn His Asn Phe Arg Leu Asn Glu Arg Glu Val Val Lys Val Ser Met						
		325		330		335
Met Gln Thr Lys Gly Asn Phe Leu Ala Ala Asn Asp Gln Glu Leu Asp						
		340		345		350
Cys Asp Ile Leu Gln Leu Glu Tyr Val Gly Gly Ile Ser Met Leu Ile						
		355		360		365
Val Val Pro His Lys Met Ser Gly Met Lys Thr Leu Glu Ala Gln Leu						
		370		375		380
Thr Pro Arg Val Val Glu Arg Trp Gln Lys Ser Met Thr Asn Arg Thr						
		385		390		395
Arg Glu Val Leu Leu Pro Lys Phe Lys Leu Glu Lys Asn Tyr Asn Leu						
		405		410		415
Val Glu Ser Leu Lys Leu Met Gly Ile Arg Met Leu Phe Asp Lys Asn						
		420		425		430
Gly Asn Met Ala Gly Ile Ser Asp Gln Arg Ile Ala Ile Asp Leu Phe						
		435		440		445
Lys His Gln Gly Thr Ile Thr Val Asn Glu Glu Gly Thr Gln Ala Thr						
		450		455		460
Thr Val Thr Thr Val Gly Phe Met Pro Leu Ser Thr Gln Val Arg Phe						
		465		470		475
Thr Val Asp Arg Pro Phe Leu Phe Leu Ile Tyr Glu His Arg Thr Ser						
		485		490		495
Cys Leu Leu Phe Met Gly Arg Val Ala Asn Pro Ser Arg Ser						
		500		505		510

&lt;210&gt; 487

&lt;211&gt; 190

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (106)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 487

His Leu Arg Arg Gln Gln Asp Thr Leu Ser Thr Ala Leu Gln Trp Leu  
 1 5 10 15  
 Leu Leu Leu Phe Thr Arg Tyr Pro Asp Val Gln Thr Arg Val Gln Ala  
 20 25 30  
 Glu Leu Asp Gln Val Val Gly Arg Asp Arg Leu Pro Cys Met Gly Asp  
 35 40 45  
 Gln Pro Asn Leu Pro Tyr Val Leu Ala Phe Leu Tyr Glu Ala Met Arg  
 50 55 60  
 Phe Ser Ser Phe Val Pro Val Thr Ile Pro His Ala Thr Thr Ala Asn  
 65 70 75 80  
 Thr Ser Val Leu Gly Tyr His Ile Pro Lys Asp Thr Val Val Phe Val  
 85 90 95  
 Asn Gln Trp Ser Val Asn His Asp Pro Xaa Lys Trp Pro Asn Pro Glu  
 100 105 110  
 Asn Phe Asp Pro Ala Arg Phe Leu Asp Lys Asp Gly Leu Ile Asn Lys  
 115 120 125  
 Asp Leu Thr Ser Arg Val Met Ile Phe Ser Val Gly Lys Arg Arg Cys  
 130 135 140  
 Ile Gly Glu Glu Leu Ser Lys Met Gln Leu Phe Leu Phe Ile Ser Ile  
 145 150 155 160  
 Leu Ala His Gln Cys Asp Phe Arg Ala Asn Pro Asn Glu Pro Ala Lys  
 165 170 175  
 Met Asn Phe Ser Tyr Gly Leu Thr Ile Lys Pro Lys Cys Ile  
 180 185 190

&lt;210&gt; 488

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (129)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 488

Lys Met Gln Ala Pro Ala Phe Arg Asp Lys Lys Gln Gly Val Ser Ala  
 1 5 10 15

Lys Asn Gln Gly Ala His Asp Pro Asp Tyr Glu Asn Ile Thr Leu Ala  
                   20                  25                  30  
 Phe Lys Asn Gln Asp His Ala Lys Gly Gly His Ser Arg Pro Thr Ser  
                   35                  40                  45  
 Gln Val Pro Ala Gln Cys Arg Pro Pro Ser Asp Ser Thr Gln Val Pro  
                   50                  55                  60  
 Cys Trp Leu Tyr Arg Ala Ile Leu Ser Leu Tyr Ile Leu Leu Ala Leu  
                   65                  70                  75                  80  
 Ala Phe Val Leu Cys Ile Ile Leu Ser Ala Phe Ile Met Val Lys Asn  
                   85                  90                  95  
 Ala Glu Met Ser Lys Glu Leu Leu Gly Phe Lys Arg Glu Leu Trp Asn  
                   100                  105                  110  
 Val Ser Asn Ser Val Gln Ala Cys Glu Glu Arg Gln Lys Arg Gly Trp  
                   115                  120                  125  
 Xaa Ser Val Gln Gln Ser Ile Thr Met Val Arg Ser Lys Ile Asp Arg  
                   130                  135                  140  
 Leu Glu Thr Thr Leu Ala Gly Ile Lys Asn Ile Asp Thr Lys Val  
                   145                  150                  155

&lt;210&gt; 489

&lt;211&gt; 284

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (265)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (282)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 489

Glu Arg Glu Arg Glu Arg Glu Arg Gly Val Pro Gly Ala Glu  
                   1                  5                  10                  15  
 Ser Glu Met Ser Ser Ser Gly Thr Pro Asp Leu Pro Val Leu Leu Thr  
                   20                  25                  30



Asp Leu Lys Ile Gln Tyr Thr Lys Ile Phe Ile Asn Asn Glu Trp His  
 35 40 45  
 Asp Ser Val Ser Gly Lys Lys Phe Pro Val Phe Asn Pro Ala Thr Glu  
 50 55 60  
 Glu Glu Leu Cys Gln Val Glu Glu Gly Asp Lys Glu Asp Val Asp Lys  
 65 70 75 80  
 Ala Val Lys Ala Ala Arg Gln Ala Phe Gln Ile Gly Ser Pro Trp Arg  
 85 90 95  
 Thr Met Asp Ala Ser Glu Arg Gly Arg Leu Leu Tyr Lys Leu Ala Asp  
 100 105 110  
 Leu Ile Glu Arg Asp Arg Leu Leu Leu Ala Thr Met Glu Ser Met Asn  
 115 120 125  
 Gly Gly Lys Leu Tyr Ser Asn Ala Tyr Leu Asn Asp Leu Ala Gly Cys  
 130 135 140  
 Ile Lys Thr Leu Arg Tyr Cys Ala Gly Trp Ala Asp Lys Ile Gln Gly  
 145 150 155 160  
 Arg Thr Ile Pro Ile Asp Gly Asn Phe Phe Thr Tyr Thr Arg His Glu  
 165 170 175  
 Pro Ile Gly Val Cys Gly Gln Ile Ile Pro Trp Asn Phe Pro Leu Val  
 180 185 190  
 Met Leu Ile Trp Lys Ile Gly Pro Ala Leu Ser Cys Gly Asn Thr Val  
 195 200 205  
 Gly Cys Gln Thr Ser Arg Ala Asn Ser Ser His Cys Ser Pro Arg Gly  
 210 215 220  
 Ile Phe Asn Lys Arg Gly Arg Val Ser Ser Trp Ser Ser Glu Tyr Cys  
 225 230 235 240  
 Ser Trp Leu Trp Ala Tyr Ser Arg Gly Ser His Phe Phe Ser His Gly  
 245 250 255  
 Tyr Arg Gln Ser Ser Leu His Arg Xaa Asn Arg Gly Trp Gln Val Asp  
 260 265 270  
 Gln Arg Ser Cys Arg Glu Lys Gln Ser Xaa Arg Gly  
 275 280

<210> 490  
 <211> 329  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (328)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 490  
 Ala Gly Gly Glu His Pro Glu Glu Asp Pro Gly Gly Gly Gly Gln Asp  
     1                    5                    10                    15  
 Pro Arg Gly Pro Asp Pro Gly Asp Glu Ala Glu Ala Leu Thr Gly Arg  
             20                    25                    30  
 Gly Gly Ala Gly Gly Gln Leu Glu Gln Thr Lys Arg Val Lys Ala Asn  
             35                    40                    45  
 Leu Glu Lys Ala Lys Gln Thr Leu Glu Asn Glu Arg Gly Glu Leu Ala  
             50                    55                    60  
 Asn Glu Val Lys Val Leu Leu Gln Gly Lys Gly Asp Ser Glu His Lys  
             65                    70                    75                    80  
 Arg Lys Lys Xaa Glu Ala Gln Leu Gln Glu Leu Gln Val Lys Phe Asn  
                     85                    90                    95  
 Glu Gly Glu Arg Val Arg Thr Glu Leu Ala Asp Lys Val Thr Lys Leu  
             100                    105                    110  
 Gln Val Glu Leu Asp Asn Val Thr Gly Leu Leu Ser Gln Ser Asp Ser  
             115                    120                    125  
 Lys Ser Ser Lys Leu Thr Lys Asp Phe Ser Ala Leu Glu Ser Gln Leu  
             130                    135                    140  
 Gln Asp Thr Gln Glu Leu Leu Gln Glu Glu Asn Arg Gln Lys Leu Ser  
             145                    150                    155                    160  
 Leu Ser Thr Lys Leu Lys Gln Val Glu Asp Glu Lys Asn Ser Phe Arg  
                     165                    170                    175  
 Glu Gln Leu Glu Glu Glu Glu Glu Ala Lys His Asn Leu Glu Lys Gln  
             180                    185                    190

Ile Ala Thr Leu His Ala Gln Val Ala Asp Met Lys Lys Lys Met Glu  
 195 200 205  
 Asp Ser Val Gly Cys Leu Glu Thr Ala Glu Glu Val Lys Arg Lys Leu  
 210 215 220  
 Gln Lys Asp Leu Glu Gly Leu Ser Gln Arg His Glu Glu Lys Val Ala  
 225 230 235 240  
 Ala Tyr Asp Lys Leu Glu Lys Thr Lys Thr Arg Leu Gln Gln Glu Leu  
 245 250 255  
 Asp Asp Leu Leu Val Asp Leu Asp His Gln Arg Gln Ser Ala Cys Asn  
 260 265 270  
 Leu Glu Lys Lys Gln Lys Lys Phe Asp Gln Leu Leu Ala Glu Glu Lys  
 275 280 285  
 Thr Ile Ser Ala Lys Tyr Ala Glu Glu Arg Asp Arg Ala Glu Ala Glu  
 290 295 300  
 Ala Arg Glu Lys Glu Thr Lys Ala Leu Ser Leu Ala Arg Ala Leu Glu  
 305 310 315 320  
 Glu Ala Met Glu Gln Lys Ala Xaa Trp  
 325

&lt;210&gt; 491

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 491

Gly Arg Ala Ala Ala Pro Gly Leu Ala Thr Arg Thr Gly Glu Cys Asp  
 1 5 10 15  
 Cys Val Ser Gly Ser Met Ala Glu Lys Arg His Thr Arg Asp Ser Glu  
 20 25 30  
 Ala Gln Arg Leu Pro Asp Ser Phe Lys Asp Ser Pro Ser Lys Gly Leu  
 35 40 45  
 Gly Pro Cys Gly Trp Ile Leu Val Ala Phe Ser Phe Leu Phe Thr Val  
 50 55 60  
 Ile Thr Phe Pro Ile Ser Ile Trp Met Cys Ile Lys Ile Ile Lys Glu  
 65 70 75 80

Tyr Glu Arg Ala Ile Ile Phe Arg Leu Gly Arg Ile Leu Gln Gly Gly  
                             85                            90                            95  
 Ala Lys Gly Pro Gly Leu Phe Phe Ile Leu Pro Cys Thr Asp Ser Phe  
                             100                            105                            110  
 Ile Lys Val Asp Met Arg Thr Ile Ser Phe Asp Ile Pro Pro Gln Glu  
                             115                            120                            125  
 Ile Leu Thr Lys Asp Ser Val Thr Ile Ser Val Asp Gly Val Val Tyr  
                             130                            135                            140  
 Tyr Arg Val Gln Asn Ala Thr Leu Ala Val Ala Asn Ile Thr Asn Ala  
                             145                            150                            155                            160  
 Asp Ser Ala Thr Arg Leu Leu Ala Gln Thr Thr Leu Arg Asn Val Leu  
                             165                            170                            175  
 Gly Thr Lys Asn Leu Ser Gln Ile Leu Ser Asp Arg Glu Glu Ile Ala  
                             180                            185                            190  
 His Asn Met Gln Ser Thr Leu Asp Asp Ala Thr Asp Ala Trp Gly Ile  
                             195                            200                            205  
 Lys Val Glu Arg Val Glu Ile Lys Asp Val Lys Leu Pro Val Gln Leu  
                             210                            215                            220  
 Gln Arg Ala Met Ala Ala Glu Ala Glu Ala Ser Arg Glu Ala Arg Ala  
                             225                            230                            235                            240  
 Lys Val Ile Ala Ala Glu Gly Glu Met Asn Ala Ser Arg Ala Leu Lys  
                             245                            250                            255  
 Glu Ala Ser Met Val Ile Thr Glu Ser Pro Ala Ala Leu Gln Leu Arg  
                             260                            265                            270  
 Tyr Leu Gln Thr Leu Thr Thr Ile Ala Ala Glu Lys Asn Ser Thr Ile  
                             275                            280                            285  
 Val Phe Pro Leu Pro Ile Asp Met Leu Gln Gly Ile Ile Gly Ala Lys  
                             290                            295                            300  
 His Ser His Leu Gly  
 305

&lt;210&gt; 492

&lt;211&gt; 135

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 492

Glu Thr Leu Pro Ser Asn Thr Met Ala Ser Asn Val Thr Asn Lys Thr  
 1 5 10 15

Asp Pro Arg Ser Met Asn Ser Arg Val Phe Ile Gly Asn Leu Asn Thr  
 20 25 30

Leu Val Val Lys Lys Ser Asp Val Glu Ala Ile Phe Ser Lys Tyr Gly  
 35 40 45

Lys Ile Val Gly Cys Ser Val His Lys Gly Phe Ala Phe Val Gln Tyr  
 50 55 60

Val Asn Glu Arg Asn Ala Arg Ala Val Ala Gly Glu Asp Gly Arg  
 65 70 75 80

Met Ile Ala Gly Gln Val Leu Asp Ile Asn Leu Ala Ala Glu Pro Lys  
 85 90 95

Val Asn Arg Gly Lys Ala Gly Val Lys Arg Ser Ala Ala Glu Met Tyr  
 100 105 110

Gly Ser Ser Phe Asp Leu Asp Tyr Asp Phe Gln Arg Asp Tyr Tyr Asp  
 115 120 125

Arg Met Tyr Ser Tyr Pro Ala  
 130 135

&lt;210&gt; 493

&lt;211&gt; 358

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 493

Gly Gly Ser Ala Met Arg Leu Ala Val Leu Phe Ser Gly Ala Leu Leu  
 1 5 10 15

Gly Leu Leu Ala Ala Gln Gly Thr Gly Asn Asp Cys Pro His Lys Lys  
 20 25 30

Ser Ala Thr Leu Leu Pro Ser Phe Thr Val Xaa Pro Thr Val Thr Glu  
 35 40 45

Ser Thr Gly Thr Thr Ser His Arg Thr Thr Lys Ser His Lys Thr Thr  
 50 55 60

Thr His Arg Thr Thr Thr Thr Gly Thr Thr Ser His Gly Pro Thr Thr  
 65 70 75 80

Ala Thr His Asn Pro Thr Thr Thr Ser His Gly Asn Val Thr Val His  
 85 90 95

Pro Thr Ser Asn Ser Thr Ala Thr Ser Gln Gly Pro Ser Thr Ala Thr  
 100 105 110

His Ser Pro Ala Thr Thr Ser His Gly Asn Ala Thr Val His Pro Thr  
 115 120 125

Ser Asn Ser Thr Ala Thr Ser Pro Gly Phe Thr Ser Ser Ala His Pro  
 130 135 140

Glu Pro Pro Pro Pro Ser Pro Ser Pro Ser Pro Thr Ser Lys Glu Thr  
 145 150 155 160

Ile Gly Asp Tyr Thr Trp Thr Asn Gly Ser Gln Pro Cys Val His Leu  
 165 170 175

Gln Ala Gln Ile Gln Ile Arg Val Met Tyr Thr Thr Gln Gly Gly Gly  
 180 185 190

Glu Ala Trp Gly Ile Ser Val Leu Asn Pro Asn Lys Thr Lys Val Gln  
 195 200 205

Gly Ser Cys Glu Gly Ala His Pro His Leu Leu Leu Ser Phe Pro Tyr  
 210 215 220

Gly His Leu Ser Phe Gly Phe Met Gln Asp Leu Gln Gln Lys Val Val  
 225 230 235 240

Tyr Leu Ser Tyr Met Ala Val Glu Tyr Asn Val Ser Phe Pro His Ala  
 245 250 255

Ala Gln Trp Thr Phe Ser Ala Gln Asn Ala Ser Leu Arg Asp Leu Gln  
 260 265 270

Ala Pro Leu Gly Gln Ser Phe Ser Cys Ser Asn Ser Ser Ile Ile Leu  
 275 280 285

Ser Pro Ala Val His Leu Asp Leu Leu Ser Leu Arg Leu Gln Ala Ala  
 290 295 300

Gln Leu Pro His Thr Gly Val Phe Gly Gln Ser Phe Ser Cys Pro Ser  
 305 310 315 320

Asp Arg Ser Ile Leu Leu Pro Leu Ile Ile Gly Leu Ile Leu Leu Gly  
325 330 335

Leu Leu Ala Leu Val Leu Ile Ala Phe Cys Ile Ile Arg Arg Arg Pro  
340 345 350

Ser Ala Tyr Gln Ala Leu  
355

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<210> 494
<211> 430
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (290)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (307)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (412)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 494  
Gly Arg Pro Ser Ser Gly Leu Arg Ser Pro Gly Pro Gly Xaa Xaa Ser  
1 5 10 15

Phe Lys Lys Thr Ser Ser Phe Cys Ala Asp Val Leu Ala Gln Asp Leu  
20 25 30

His Lys Pro Ala Phe Glu Ala Asp Ile Ser Glu Leu Ile Leu Cys Gln  
35 40 45

Asn Glu Val Asp Tyr Ala Leu Lys Asn Leu Gln Ala Trp Met Lys Asp  
 50 55 60

Glu Pro Arg Ser Thr Asn Leu Phe Met Lys Leu Asp Ser Val Phe Ile  
 65 70 75 80

Trp Lys Glu Pro Phe Gly Leu Val Leu Ile Ile Ala Pro Trp Asn Tyr  
 85 90 95

Pro Leu Asn Leu Thr Leu Val Leu Leu Val Gly Ala Leu Ala Ala Gly  
 100 105 110

Asn Cys Val Val Leu Lys Pro Ser Glu Ile Ser Gln Gly Thr Glu Lys  
 115 120 125

Val Leu Ala Glu Val Leu Pro Gln Tyr Leu Asp Gln Ser Cys Phe Ala  
 130 135 140

Val Val Leu Gly Gly Pro Gln Glu Thr Gly Gln Leu Leu Glu His Lys  
 145 150 155 160

Leu Asp Tyr Ile Phe Phe Thr Gly Ser Pro Arg Val Gly Lys Ile Val  
 165 170 175

Met Thr Ala Ala Thr Lys His Leu Thr Pro Val Thr Leu Glu Leu Gly  
 180 185 190

Gly Lys Asn Pro Cys Tyr Val Asp Asp Asn Cys Asp Pro Gln Thr Val  
 195 200 205

Ala Asn Arg Val Ala Trp Phe Cys Tyr Phe Asn Ala Gly Gln Thr Cys  
 210 215 220

Val Ala Pro Asp Tyr Val Leu Cys Ser Pro Glu Met Gln Glu Arg Leu  
 225 230 235 240

Leu Pro Ala Leu Gln Ser Thr Ile Thr Arg Phe Tyr Gly Asp Asp Pro  
 245 250 255

Gln Ser Ser Pro Asn Leu Gly Arg Ile Ile Asn Gln Lys Gln Phe Gln  
 260 265 270

Arg Leu Arg Ala Leu Leu Gly Cys Gly Arg Val Ala Ile Gly Gly Gln  
 275 280 285

Ser Xaa Glu Ser Asp Arg Tyr Ile Ala Pro Thr Val Leu Val Asp Val  
 290 295 300

Gln Glu Xaa Glu Pro Val Met Gln Glu Glu Ile Phe Gly Pro Ile Leu  
 305 310 315 320



Pro Ile Val Asn Val Gln Ser Leu Asp Glu Ala Ile Glu Phe Ile Asn  
325 330 335

Arg Arg Glu Lys Pro Leu Ala Leu Tyr Ala Phe Ser Asn Ser Ser Gln  
340 345 350

Val Val Lys Arg Val Leu Thr Gln Thr Ser Ser Gly Gly Phe Cys Gly  
355 360 365

Asn Asp Gly Phe Met His Met Thr Leu Ala Ser Leu Pro Phe Gly Gly  
370 375 380

Val Gly Ala Ser Gly Met Gly Arg Tyr His Gly Lys Phe Ser Phe Asp  
385 390 395 400

Thr Phe Ser His His Arg Ala Cys Leu Leu Arg Xaa Arg Gly Trp Arg  
405 410 415

Ser Ser Thr Pro Ser Ala Thr Arg Arg Asn Arg Arg Ala Ala  
420 425 430

<210> 495

<211> 439

<212> PRT

<213> Homo sapiens

**<220>**

**<221> SITE**

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

**<221> SITE**

**<222> (416)**

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 495

Asp Ser Arg Thr Arg Tyr Ala Xaa Glu Arg Asp Lys Ala Gln Phe Leu  
1 5 10 15

Ser Lys Glu Leu Glu His Val Lys Met Glu Leu Ala Lys Tyr Lys Leu  
20 25 30

Ala Glu Lys Thr Glu Thr Ser His Glu Gln Trp Leu Phe Lys Arg Leu  
35 40 45

Gln Glu Glu Glu Ala Lys Ser Gly His Leu Ser Arg Glu Val Asp Ala  
50 55 60

Leu Lys Glu Lys Ile His Glu Tyr Met Ala Thr Glu Asp Leu Ile Cys  
 65 70 75 80  
 His Leu Gln Gly Asp His Ser Val Leu Gln Lys Lys Leu Asn Gln Gln  
 85 90 95  
 Glu Asn Arg Asn Arg Asp Leu Gly Arg Glu Ile Glu Asn Leu Thr Lys  
 100 105 110  
 Glu Leu Glu Arg Tyr Arg His Phe Ser Lys Ser Leu Arg Pro Ser Leu  
 115 120 125  
 Asn Gly Arg Arg Ile Ser Asp Pro Gln Val Phe Ser Lys Glu Val Gln  
 130 135 140  
 Thr Glu Ala Val Asp Asn Glu Pro Pro Asp Tyr Lys Ser Leu Ile Pro  
 145 150 155 160  
 Leu Glu Arg Ala Val Ile Asn Gly Gln Leu Tyr Glu Glu Ser Glu Asn  
 165 170 175  
 Gln Asp Glu Asp Pro Asn Asp Glu Gly Ser Val Leu Ser Phe Lys Cys  
 180 185 190  
 Ser Gln Ser Thr Pro Cys Pro Val Asn Arg Lys Leu Trp Ile Pro Trp  
 195 200 205  
 Met Lys Ser Lys Glu Gly His Leu Gln Asn Gly Lys Met Gln Thr Lys  
 210 215 220  
 Pro Asn Ala Asn Phe Val Gln Pro Gly Asp Leu Val Leu Ser His Thr  
 225 230 235 240  
 Pro Gly Gln Pro Leu His Ile Lys Val Thr Pro Asp His Val Gln Asn  
 245 250 255  
 Thr Ala Thr Leu Glu Ile Thr Ser Pro Thr Thr Glu Ser Pro His Ser  
 260 265 270  
 Tyr Thr Ser Thr Ala Val Ile Pro Asn Cys Gly Thr Pro Lys Gln Arg  
 275 280 285  
 Ile Thr Ile Leu Gln Asn Ala Ser Ile Thr Pro Val Lys Ser Lys Thr  
 290 295 300  
 Ser Thr Glu Asp Leu Met Asn Leu Glu Gln Gly Met Ser Pro Ile Thr  
 305 310 315 320  
 Met Ala Thr Phe Ala Arg Ala Gln Thr Pro Glu Ser Cys Gly Ser Leu  
 325 330 335

Thr Pro Glu Arg Thr Met Ser Pro Ile Gln Val Leu Ala Val Thr Gly  
 340 345 350

Ser Ala Ser Ser Pro Glu Gln Gly Arg Ser Pro Glu Pro Thr Glu Ile  
 355 360 365

Ser Ala Lys His Ala Ile Phe Arg Val Ser Pro Asp Arg Gln Ser Ser  
 370 375 380

Trp Gln Phe Gln Arg Ser Asn Ser Asn Ser Ser Ser Val Ile Thr Thr  
 385 390 395 400

Glu Asp Asn Lys Ile His Ile His Leu Gly Ser Pro Tyr Met Gln Xaa  
 405 410 415

Val Ala Ser Pro Val Arg Pro Ala Ser Pro Ser Ala Pro Leu Gln Asp  
 420 425 430

Asn Arg Thr Gln Gly Leu Ile  
 435

<210> 496

<211> 149

<212> PRT

<213> Homo sapiens

<400> 496

Glu Ser Thr Gly Thr Ala Ser Arg Ala Ala Thr Met Pro Asn Phe Ser  
 1 5 10 15

Gly Asn Trp Lys Ile Ile Arg Ser Glu Asn Phe Glu Glu Leu Leu Lys  
 20 25 30

Val Leu Gly Val Asn Val Met Leu Arg Lys Ile Ala Val Ala Ala Ala  
 35 40 45

Ser Lys Pro Ala Val Glu Ile Lys Gln Glu Gly Asp Thr Phe Tyr Ile  
 50 55 60

Lys Thr Ser Thr Thr Val Arg Thr Thr Glu Ile Asn Phe Lys Val Gly  
 65 70 75 80

Glu Glu Phe Glu Glu Gln Thr Val Asp Gly Arg Pro Cys Lys Ser Leu  
 85 90 95

Val Lys Trp Glu Ser Glu Asn Lys Met Val Cys Glu Gln Lys Leu Leu  
 100 105 110

Lys Gly Glu Gly Pro Lys Thr Ser Trp Thr Arg Glu Leu Thr Asn Asp

115                      120                      125  
 Gly Glu Leu Ile Leu Thr Met Thr Ala Asp Asp Val Val Cys Thr Arg  
 130                      135                      140  
 Val Tyr Val Arg Glu  
 145

<210> 497  
 <211> 395  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (164)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 497  
 Ala Glu Lys Lys Ser Thr Lys Thr His Ser Leu Leu Val Gly Arg Glu  
 1                      5                      10                      15  
 Asp Arg Asn Asp Met Ser Thr Ala Gly Lys Val Ile Lys Cys Lys Ala  
 20                      25                      30  
 Ala Val Leu Trp Glu Val Lys Lys Pro Phe Ser Ile Glu Asp Val Glu  
 35                      40                      45  
 Val Ala Pro Pro Lys Ala Tyr Glu Val Arg Ile Lys Met Val Ala Val  
 50                      55                      60  
 Gly Ile Cys Arg Thr Asp Asp His Val Val Ser Gly Asn Leu Val Thr  
 65                      70                      75                      80  
 Pro Leu Pro Val Ile Leu Gly His Glu Ala Ala Gly Ile Val Glu Ser  
 85                      90                      95  
 Val Gly Glu Gly Val Thr Thr Val Lys Pro Gly Asp Lys Val Ile Pro  
 100                      105                      110  
 Leu Phe Thr Pro Gln Cys Gly Lys Cys Arg Val Cys Lys Asn Pro Glu  
 115                      120                      125  
 Ser Asn Tyr Cys Leu Lys Asn Asp Leu Gly Asn Pro Arg Gly Thr Leu  
 130                      135                      140  
 Gln Asp Gly Thr Arg Arg Phe Thr Cys Arg Gly Lys Pro Ile His His  
 145                      150                      155                      160

Phe Leu Gly Xaa Ser Thr Phe Ser Gln Tyr Thr Val Val Asp Glu Asn  
                           165                          170                          175  
 Ala Val Ala Lys Ile Asp Ala Ala Ser Pro Leu Glu Lys Val Cys Leu  
                           180                          185                          190  
 Ile Gly Cys Gly Phe Ser Thr Gly Tyr Gly Ser Ala Val Asn Val Ala  
                           195                          200                          205  
 Lys Val Thr Pro Gly Ser Thr Cys Ala Val Phe Gly Leu Gly Gly Val  
                           210                          215                          220  
 Gly Leu Ser Ala Val Met Gly Cys Lys Ala Ala Gly Ala Ala Arg Ile  
 225                          230                          235                          240  
 Ile Ala Val Asp Ile Asn Lys Asp Lys Phe Ala Lys Ala Lys Glu Leu  
                           245                          250                          255  
 Gly Ala Thr Glu Cys Ile Asn Pro Gln Asp Tyr Lys Lys Pro Ile Gln  
                           260                          265                          270  
 Glu Val Leu Lys Glu Met Thr Asp Gly Gly Val Asp Phe Ser Phe Glu  
                           275                          280                          285  
 Val Ile Gly Arg Leu Asp Thr Met Met Ala Ser Leu Leu Cys Cys His  
                           290                          295                          300  
 Glu Ala Cys Gly Thr Ser Val Ile Val Gly Val Pro Pro Ala Ser Gln  
 305                          310                          315                          320  
 Asn Leu Ser Ile Asn Pro Met Leu Leu Leu Thr Gly Arg Thr Trp Lys  
                           325                          330                          335  
 Gly Ala Val Tyr Gly Gly Phe Lys Ser Lys Glu Gly Ile Pro Lys Leu  
                           340                          345                          350  
 Val Ala Asp Phe Met Ala Lys Lys Phe Ser Leu Asp Ala Leu Ile Thr  
                           355                          360                          365  
 His Val Leu Pro Phe Glu Lys Ile Asn Glu Gly Phe Asp Leu Leu His  
                           370                          375                          380  
 Ser Gly Lys Ser Ile Arg Thr Val Leu Thr Phe  
 385                          390                          395

&lt;210&gt; 498

&lt;211&gt; 281

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 498

Arg Thr Leu Gly Xaa Pro Ser Ala Ser Val Leu Pro His Ser Arg Ala  
 1 5 10 15

Leu Leu Thr Pro Xaa Arg Ala Pro Lys Lys Lys Met Ala Ile Ser Gly  
 20 25 30

Val Pro Val Leu Gly Phe Phe Ile Ile Ala Val Leu Met Ser Ala Gln  
 35 40 45

Glu Ser Trp Ala Ile Lys Glu Glu His Val Ile Ile Gln Ala Glu Phe  
 50 55 60

Tyr Leu Asn Pro Asp Gln Ser Gly Glu Phe Met Phe Asp Phe Asp Gly  
 65 70 75 80

Asp Glu Ile Phe His Val Asp Met Ala Lys Lys Glu Thr Val Trp Arg  
 85 90 95

Leu Glu Glu Phe Gly Arg Phe Ala Ser Phe Glu Ala Gln Gly Ala Leu  
 100 105 110

Ala Asn Ile Ala Val Asp Lys Ala Asn Leu Glu Ile Met Thr Lys Arg  
 115 120 125

Ser Asn Tyr Thr Pro Ile Thr Asn Val Pro Pro Glu Val Thr Val Leu  
 130 135 140

Thr Asn Ser Pro Val Glu Leu Arg Glu Pro Asn Val Leu Ile Cys Phe  
 145 150 155 160

Ile Asp Lys Phe Thr Pro Pro Val Val Asn Val Thr Trp Leu Arg Asn  
 165 170 175

Gly Lys Pro Val Thr Thr Gly Val Ser Glu Thr Val Phe Leu Pro Arg  
 180 185 190

Glu Asp His Leu Phe Arg Lys Phe His Tyr Leu Pro Phe Leu Pro Ser  
 195 200 205

Thr Glu Asp Val Tyr Asp Cys Arg Val Glu His Trp Gly Leu Asp Glu  
 210 215 220

Pro Leu Leu Lys His Trp Glu Phe Asp Ala Pro Ser Pro Leu Pro Glu  
 225 230 235 240

Thr Thr Glu Asn Val Val Cys Ala Leu Gly Leu Thr Val Gly Leu Val  
 245 250 255

Gly Ile Ile Ile Gly Thr Ile Phe Ile Ile Lys Gly Val Arg Lys Ser  
 260 265 270

Asn Ala Ala Glu Arg Arg Gly Pro Leu  
 275 280

<210> 499

<211> 446

<212> PRT

<213> Homo sapiens

<400> 499

Pro Glu Gln Gly Gly Glu Arg Leu Ser Cys Pro Pro Glu Leu Leu Pro  
 1 5 10 15

Gly Asp Asn Pro Ser Gln Pro Ile Ala Gln Pro Arg Ser Pro Tyr Ile  
 20 25 30

Arg Pro Arg Leu Leu Ala Leu Pro Leu Gly Gln Cys His Leu Gln Asp  
 35 40 45

Thr Asp Ser Pro Pro Ser Ala Gln Pro Ser Gln Val Ser Tyr Thr Ala  
 50 55 60

Thr Met Pro Phe Gly Asn Thr His Asn Lys Phe Lys Leu Asn Tyr Lys  
 65 70 75 80

Pro Glu Glu Glu Tyr Pro Asp Leu Ser Lys His Asn Asn His Met Ala  
 85 90 95

Lys Val Leu Thr Leu Glu Leu Tyr Lys Lys Leu Arg Asp Lys Glu Thr  
 100 105 110

Pro Ser Gly Phe Thr Val Asp Asp Val Ile Gln Thr Gly Val Asp Asn  
 115 120 125

Pro Gly His Pro Phe Ile Met Thr Val Gly Cys Val Ala Gly Asp Glu  
 130 135 140

Glu Ser Tyr Glu Val Phe Lys Glu Leu Phe Asp Pro Ile Ile Ser Asp

145		150		155		160
Arg His Gly Gly Tyr Lys Pro Thr Asp Lys His Lys Thr Asp Leu Asn						
		165		170		175
His Glu Asn Leu Lys Gly Gly Asp Asp Leu Asp Pro Asn Tyr Val Leu						
		180		185		190
Ser Ser Arg Val Arg Thr Gly Arg Ser Ile Lys Gly Tyr Thr Leu Pro						
		195		200		205
Pro His Cys Ser Arg Gly Glu Arg Arg Ala Val Glu Lys Leu Ser Val						
		210		215		220
Glu Ala Leu Asn Ser Leu Thr Gly Glu Phe Lys Gly Lys Tyr Tyr Pro						
		225		230		240
Leu Lys Ser Met Thr Glu Lys Glu Gln Gln Gln Leu Ile Asp Asp His						
		245		250		255
Phe Leu Phe Asp Lys Pro Val Ser Pro Leu Leu Leu Ala Ser Gly Met						
		260		265		270
Ala Arg Asp Trp Pro Asp Ala Arg Gly Ile Trp His Asn Asp Asn Lys						
		275		280		285
Ser Phe Leu Val Trp Val Asn Glu Glu Asp His Leu Arg Val Ile Ser						
		290		295		300
Met Glu Lys Gly Gly Asn Met Lys Glu Val Phe Arg Arg Phe Cys Val						
		305		310		320
Gly Leu Gln Lys Ile Glu Glu Ile Phe Lys Lys Ala Gly His Pro Phe						
		325		330		335
Met Trp Asn Gln His Leu Gly Tyr Val Leu Thr Cys Pro Ser Asn Leu						
		340		345		350
Gly Thr Gly Leu Arg Gly Gly Val His Val Lys Leu Ala His Leu Ser						
		355		360		365
Lys His Pro Lys Phe Glu Glu Ile Leu Thr Arg Leu Arg Leu Gln Lys						
		370		375		380
Arg Gly Thr Gly Gly Val Asp Thr Ala Ala Val Gly Ser Val Phe Asp						
		385		390		400
Val Ser Asn Ala Asp Arg Leu Gly Ser Ser Glu Val Glu Gln Val Gln						
		405		410		415
Leu Val Val Asp Gly Val Lys Leu Met Val Glu Met Glu Lys Lys Leu						